



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
CINCINNATI, OHIO 45268

October 23, 2012

Tim Hoffman - Owner
Dinsmore & Shohl LLP
1951 Dryden Road
Moraine, Ohio 45439

Bruce Mangeot - Tenant
B&G Equipment and Truck Repair, Inc.
1951 Dryden Road
Moraine, Ohio 45439

Dear Messrs. Hoffman and Mangeot:

Re: Summary of Results from 2012 Vapor Intrusion Study
South Dayton Dump and Landfill Site – B&G Equipment and Truck Repair, Inc.
(Buildings 8, 9 & 11)

The United States Environmental Protection Agency (U.S. EPA) prepared this letter to inform you of the results of the sub-slab (space under your building floor) and indoor air samples collected from your property in 2012. Samples were collected in 2012 as part of the vapor intrusion (VI) investigation at the South Dayton Dump and Landfill (SDDL) Site. Conestoga-Rovers & Associates (CRA) collected these samples to determine if solvent- or petroleum-related compounds (see Table 1) are present in soil vapor beneath the foundations and in the indoor air of your property at concentrations which exceed sub-slab and/or indoor air VI screening levels, as established by the Ohio Department of Health (ODH).

VI is the migration of volatile chemicals from the subsurface into overlying buildings. VI is a potential concern at any building, existing or planned, located near soil, groundwater, or soil vapor containing solvent- or petroleum-related compounds that may volatilize or chemicals that are combustible.

The samples were collected by CRA and submitted to TestAmerica Inc. CRA received and validated the results of the laboratory analysis and submitted those results to the U.S. EPA.

The ODH has recommended the screening levels for sub-slab and indoor air samples. The screening levels represent concentrations of a substance that are unlikely to cause harmful (adverse) health effects in exposed people. Detections in indoor air below these levels are not of a health concern. A summary of the analytical results and comparisons to the ODH screening levels can be found in Table 1.

Compounds detected at concentrations greater than the ODH screening levels from sub-slab and indoor air samples are presented below. All of the air samples are measured in units called parts per billion by volume (ppbv). A map identifying each sample location within your building(s) can be found in **Attachment A**.

TABLE 1
SUMMARY OF 2012 SAMPLING RESULTS
FOR
B&G EQUIPMENT AND TRUCK REPAIR, INC.

Building / Probe	Sampling Date	Sample Type	Parameter	ODH Screening Level (ppbv)	Detected Concentration (ppbv)
Building 8 Probe A	1-11-12	Sub-slab	TCE	20	1,400
Building 8 Probe A	3-14-12	Sub-slab	TCE	20	960
Building 8 Probe A	8-7-12	Sub-slab	TCE	20	1,800
Building 8 Probe B	1-11-12	Sub-slab	TCE	20	31
Building 8 Probe B	3-14-12	Sub-slab	TCE	20	26
Building 8 Probe B	8-7-12	Sub-slab	TCE	20	95
Building 8 Probe C	3-14-12	Indoor air	Benzene ^[A]	2	20
Building 8 Probe C	8-7-12	Sub-slab	TCE	20	35
Building 8 Probe D	1-11-12	Sub-slab	TCE	20	420
Building 8 Probe D	3-14-12	Sub-slab	TCE	20	420 / 350
Building 8 Probe D	8-7-12	Sub-slab	TCE	20	930
Building 8 Probe F	3-14-12	Indoor air	Benzene ^[A]	2	13
Building 8 Office	3-14-12	Indoor air	Benzene ^[A]	2	26 J
Building 9 Probe A	1-11-12	Sub-slab	TCE	20	1,800 / 1,800
Building 9 Probe A	3-27-12	Sub-slab	TCE	20	3,100
Building 9 Probe A	3-27-12	Indoor air	Ethylbenzene ^[A] m&p-Xylenes ^[A] o-Xylene ^[A] TCE	250 200 200 2	270 1,200 390 13 J
Building 9 Probe B	3-14-12	Indoor air	m&p-Xylenes ^[A]	200	420

Notes:

420 / 350 – Result / Duplicate Result

J – Estimated Quantity

TCE – Trichloroethene

[^A] – This compound was not detected in the adjacent sub-slab soil vapor sample, indicating that the indoor air concentration is not due to vapor intrusion

What do these results mean?

Building 8

In January, March and August 2012, the chemical TCE was observed in 10 different sub-slab samples collected in Building 8. TCE concentrations ranged from 26 to 1,800 ppbv, which all ten exceed the ODH TCE sub-slab screening level of 20 ppbv. The chemical TCE was not observed in the indoor air samples collected in Building 8 at concentrations greater than the ODH TCE indoor air screening level of 2 ppbv. These results show that at the time of each sampling event in 2012, vapor intrusion has not been documented in Building 8, but that there is the potential for vapor intrusion to occur in the future.

Building 9

On March 27, 2012, the chemical trichloroethene (TCE) was observed in a sub-slab sample collected in Building 9 at a concentration of 3,100 ppbv. This result exceeds the ODH TCE sub-slab screening level of 20 ppbv. The chemical TCE was also observed in an indoor air sample at a concentration of 13 ppbv. This result exceeds the ODH TCE indoor air screening level of 2 ppbv. These results confirm that vapor intrusion is occurring in Building 9.

Based on the TCE laboratory results of the sub-slab and indoor air samples collected from Building 9, the U.S. EPA and ODH conclude that there is a potential public health threat posed by TCE vapor intrusion. U.S. EPA will be contacting you in the near future to discuss mitigation options for your property as part of the SDDL Site removal action.

Although some compounds were detected in indoor air samples at concentrations greater than ODH screening levels (i.e., indoor air benzene concentrations in Building 8, and indoor air ethylbenzene, m&p-xylene and o-xylene concentrations in Building 9), these compounds were not detected in the co-located sub-slab soil vapor samples, indicating that the indoor air concentrations are not due to vapor intrusion.

Building 11

All compounds were detected at concentrations less than the ODH screening levels for indoor air samples. Based on the laboratory results of the indoor air samples (crawl space samples) collected from Building 11, the U.S. EPA and ODH conclude that no additional sampling is required, at this time.

The U.S. EPA and ODH would like to take this opportunity to thank you for participating in this important investigation.

If you have health-related questions, please contact Dr. Bob Frey at the ODH at 614-466-1069. If you have questions related to the sampling or on-going site investigation, please visit our website at www.epaosc.org/southdaytondumpsite or contact me at 513-569-7539.

Sincerely,

A handwritten signature in black ink, appearing to read "Stev L. Renninger". It is written in a cursive style with a long horizontal stroke extending to the right.

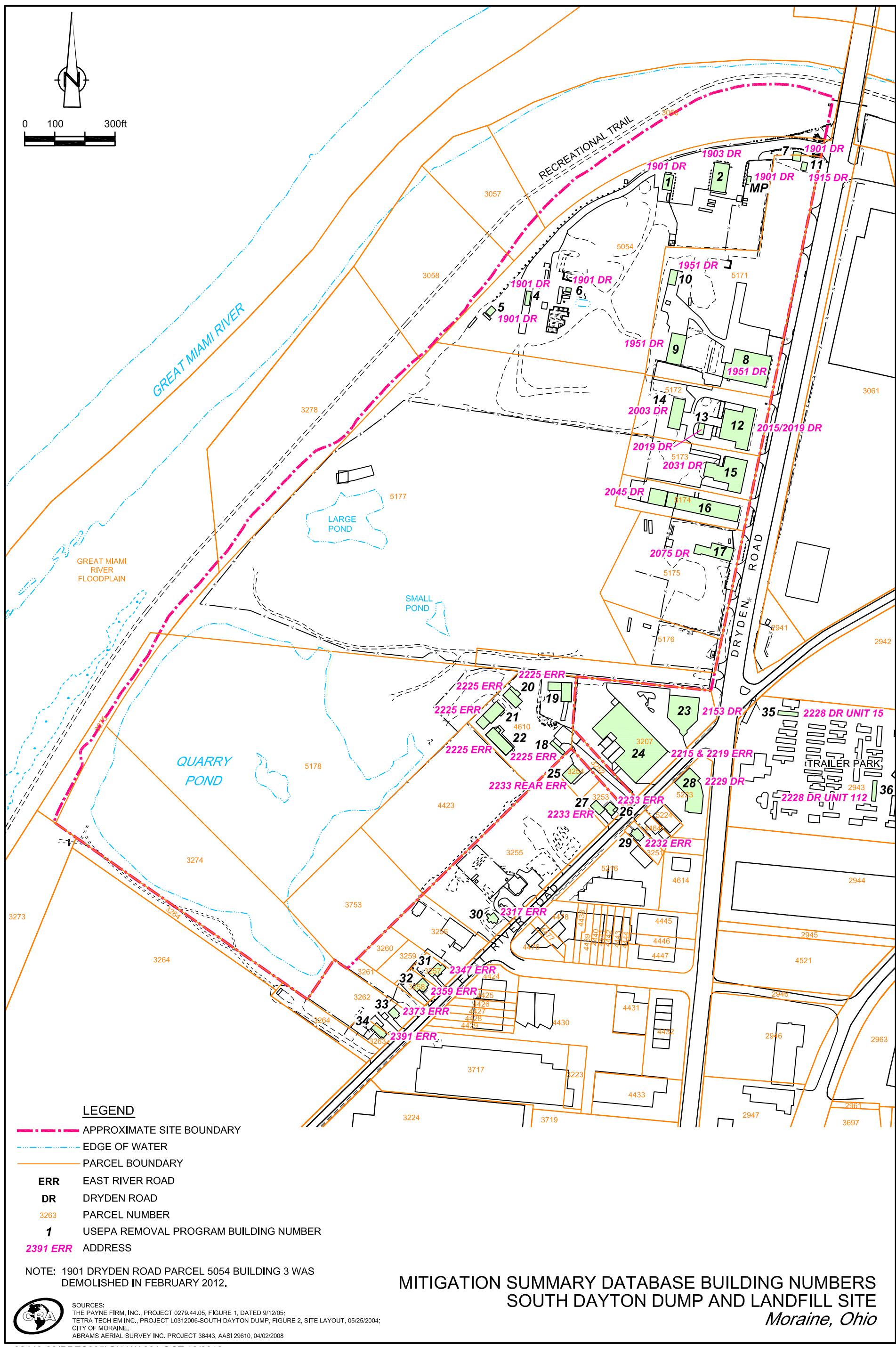
Steven L. Renninger
On-Scene Coordinator
U.S. EPA Region 5

Attachments:

- A – Sample Location Map
- B – Validated Analytical Results

cc: Leslie Patterson - U.S. EPA Remedial Program Manager
Laura Marshall - Ohio EPA, Site Coordinator
Adam Loney, CRA
Tina Ortiz – Mark Fornes Realty, Inc.
Site File

ATTACHMENT A
SAMPLE LOCATION MAP









38443-62(PRES025)GN-WA035 OCT 18/2012

ATTACHMENT B

VALIDATED ANALYTICAL RESULTS

TABLE 1

**SUMMARY OF SUB-SLAB SOIL VAPOR ANALYTICAL RESULTS
BUILDINGS 8 AND 9 - 1951 DRYDEN ROAD
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO**

<i>Sample Location:</i>		<i>Building 8, Probe A</i>	<i>Building 8, Probe A</i>	<i>Building 8, Probe A</i>	<i>Building 8, Probe B</i>	<i>Building 8, Probe B</i>	<i>Building 8, Probe B</i>
<i>Sample Location:</i>		<i>1951 Dryden Road</i>	<i>1951 Dryden Road</i>	<i>1951 Dryden Road</i>	<i>1951 Dryden Road</i>	<i>1951 Dryden Road</i>	<i>1951 Dryden Road</i>
<i>Sample Date:</i>		<i>1/11/2012</i>	<i>3/14/2012</i>	<i>8/7/2012</i>	<i>1/11/2012</i>	<i>3/14/2012</i>	<i>8/7/2012</i>
<i>Parameter</i>	<i>Units</i>	<i>ODH Sub-Slab Screening Levels (Non-residential)</i>	<i>ODH Sub-Slab Action Levels (Non-residential)</i>	<i>a</i>	<i>b</i>		
Volatile Organic Compounds							
1,1,1-Trichloroethane	ppb	NC	NC	2.8 U	3.2 U	1.3 J	0.29 J
1,1,2,2-Tetrachloroethane	ppb	NC	NC	3.2 U	6.5 U	0.49 U	0.12 U
1,1,2-Trichloroethane	ppb	NC	NC	1.5 U	5.8 U	0.43 U	0.057 U
1,1-Dichloroethane	ppb	160	1600	2.8 U	2.8 U	0.25 J	0.10 U
1,1-Dichloroethene	ppb	NC	NC	2.4 U	3.4 U	0.26 U	0.090 U
1,2,4-Trichlorobenzene	ppb	NC	NC	4.0 U	10 U	0.78 UJ	0.15 U
1,2,4-Trimethylbenzene	ppb	NC	NC	4.2 U	6.7 U	0.79 J	0.19 J
1,2-Dibromoethane (Ethylene dibromide)	ppb	NC	NC	1.5 U	4.7 U	0.35 U	0.054 U
1,2-Dichlorobenzene	ppb	NC	NC	3.9 U	7.5 U	0.56 U	0.14 U
1,2-Dichloroethane	ppb	NC	NC	2.5 U	5.0 U	0.38 U	0.093 U
1,2-Dichloroethene (total)	ppb	NC	NC	38	-	-	0.98
1,2-Dichloropropane	ppb	NC	NC	1.1 U	5.6 U	0.42 U	0.042 U
1,2-Dichlorotetrafluoroethane (CFC 114)	ppb	NC	NC	2.6 U	3.4 U	0.26 U	0.096 U
1,3,5-Trimethylbenzene	ppb	NC	NC	4.1 U	7.0 U	0.52 U	0.15 U
1,3-Butadiene	ppb	NC	NC	0.81 U	6.9 U	0.51 U	0.030 U
1,3-Dichlorobenzene	ppb	NC	NC	3.5 U	7.0 U	0.52 U	0.13 U
1,4-Dichlorobenzene	ppb	NC	NC	3.5 U	6.9 UJ	0.51 U	0.13 U
1,4-Dioxane	ppb	NC	NC	7.1 U	8.6 U	0.64 U	0.26 U
2,2,4-Trimethylpentane	ppb	NC	NC	2.9 U	4.2 U	0.59 J	0.11 U
2-Butanone (Methyl ethyl ketone) (MEK)	ppb	NC	NC	1.4 U	21 U	1.6 U	0.14 J
2-Chlorotoluene	ppb	NC	NC	3.8 U	6.7 U	0.50 U	0.14 U
2-Hexanone	ppb	NC	NC	3.1 U	6.2 U	0.46 U	0.12 U
2-Phenylbutane (sec-Butylbenzene)	ppb	NC	NC	3.8 U	6.9 U	0.51 U	0.14 U
4-Ethyl toluene	ppb	NC	NC	3.7 U	7.1 U	0.53 U	0.14 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ppb	NC	NC	2.1 U	4.8 U	0.36 U	0.078 U
Acetone	ppb	NC	NC	13 J	150 U	11 J	6.5 J
Allyl chloride	ppb	NC	NC	1.5 U	5.1 U	0.38 U	0.057 U
Benzene	ppb	20	200	1.5 U	6.0 U	1.1 J	0.13 J
Benzyl chloride	ppb	NC	NC	3.7 UJ	8.4 U	0.62 U	0.14 U
Bromodichloromethane	ppb	NC	NC	2.3 U	4.7 U	0.35 U	0.084 U
Bromoform	ppb	NC	NC	1.5 U	5.1 U	0.38 U	0.057 U
Bromomethane (Methyl bromide)	ppb	NC	NC	0.97 U	3.4 U	0.26 U	0.036 U
Butane	ppb	NC	NC	0.89 U	16 J	15	0.033 U
Carbon disulfide	ppb	NC	NC	5.3 U	3.3 U	0.25 U	1.6
Carbon tetrachloride	ppb	NC	NC	2.7 U	4.1 U	0.64 J	0.099 U
Chlorobenzene	ppb	NC	NC	1.6 U	5.2 U	0.39 U	0.060 U
Chlorodifluoromethane	ppb	NC	NC	2.7 U	6.0 J	0.30 U	0.10 U
Chloroethane	ppb	NC	NC	1.3 U	3.7 U	0.29 J	0.048 U
Chloroform (Trichloromethane)	ppb	800	8000	16	17 J	25	0.74
Chloromethane (Methyl chloride)	ppb	NC	NC	1.0 U	17 U	1.3 U	0.17 J

TABLE 1

**SUMMARY OF SUB-SLAB SOIL VAPOR ANALYTICAL RESULTS
BUILDINGS 8 AND 9 - 1951 DRYDEN ROAD
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO**

<i>Sample Location:</i>		<i>Building 8, Probe A</i>	<i>Building 8, Probe A</i>	<i>Building 8, Probe A</i>	<i>Building 8, Probe B</i>	<i>Building 8, Probe B</i>	<i>Building 8, Probe B</i>
<i>Sample Location:</i>		<i>1951 Dryden Road</i>	<i>1951 Dryden Road</i>	<i>1951 Dryden Road</i>	<i>1951 Dryden Road</i>	<i>1951 Dryden Road</i>	<i>1951 Dryden Road</i>
<i>Sample Date:</i>		<i>1/11/2012</i>	<i>3/14/2012</i>	<i>8/7/2012</i>	<i>1/11/2012</i>	<i>3/14/2012</i>	<i>8/7/2012</i>
<i>Parameter</i>	<i>Units</i>	<i>ODH Sub-Slab Screening Levels (Non-residential)</i>	<i>ODH Sub-Slab Action Levels (Non-residential)</i>				
		<i>a</i>	<i>b</i>				
cis-1,2-Dichloroethene	ppb	370	3700	27	28	48	0.49 J
cis-1,3-Dichloropropene	ppb	NC	NC	1.3 U	7.9 U	0.59 U	0.048 U
Cyclohexane	ppb	NC	NC	3.1 U	4.3 U	0.36 J	0.12 U
Cymene (p-Isopropyltoluene)	ppb	NC	NC	3.9 U	6.1 U	0.46 U	0.19 J
Dibromochloromethane	ppb	NC	NC	1.7 U	4.5 U	0.34 U	0.063 U
Dichlorodifluoromethane (CFC-12)	ppb	NC	NC	3.1 U	7.3 U	0.95 J	1.8
Ethylbenzene	ppb	2500	25000	1.8 U	7.3 U	0.54 U	0.80
Hexachlorobutadiene	ppb	NC	NC	5.2 U	8.4 U	0.62 UJ	0.19 U
Hexane	ppb	NC	NC	2.1 U	3.4 U	1.5 J	0.078 U
Isopropyl alcohol	ppb	NC	NC	3.0 U	4.7 U	16	0.11 U
Isopropyl benzene	ppb	NC	NC	2.5 U	6.4 U	0.48 U	0.12 J
m&p-Xylenes	ppb	2000	20000	3.9 U	13 U	1.4 J	1.1 J
Methyl methacrylate	ppb	NC	NC	1.0 U	8.5 U	0.63 U	0.039 U
Methyl tert butyl ether (MTBE)	ppb	NC	NC	1.3 U	18 U	1.4 U	0.048 U
Methylene chloride	ppb	NC	NC	1.0 U	15 J	1.7 J	0.039 U
Naphthalene	ppb	29	NC	6.9 UJ	9.6 U	0.72 UJ	0.26 U
N-Butylbenzene	ppb	NC	NC	4.4 U	4.9 U	0.37 U	0.16 U
N-Decane	ppb	NC	NC	-	-	1.2 J	-
N-Dodecane	ppb	NC	NC	-	-	0.62 U	-
N-Heptane	ppb	NC	NC	0.81 U	5.0 U	0.38 U	1.0
Nonane	ppb	NC	NC	-	-	0.45 J	-
N-Propylbenzene	ppb	NC	NC	4.0 U	6.0 U	0.45 U	0.15 U
N-Undecane	ppb	NC	NC	-	-	0.96 J	-
Octane	ppb	NC	NC	-	-	0.29 U	-
o-Xylene	ppb	2000	20000	1.8 U	6.5 U	0.69 J	0.40 J
Pentane	ppb	NC	NC	-	-	9.3	-
Styrene	ppb	NC	NC	2.4 U	6.2 U	0.46 U	0.090 U
tert-Butyl alcohol	ppb	NC	NC	5.7 U	4.1 U	0.30 U	0.21 U
tert-Butylbenzene	ppb	NC	NC	3.8 U	7.1 U	0.53 U	0.14 U
Tetrachloroethene	ppb	250	2500	8.5 J	7.8 J	15	76
Tetrahydrofuran	ppb	NC	NC	1.5 U	6.7 U	0.50 U	0.054 U
Toluene	ppb	NC	NC	73	5.8 U	1.4 J	77
trans-1,2-Dichloroethene	ppb	NC	NC	11 J	11 J	19	0.50 J
trans-1,3-Dichloropropene	ppb	NC	NC	1.6 U	5.1 U	0.38 U	0.060 U
Trichloroethene	ppb	20	200	1400^{ab}	960^{ab}	1800^{ab}	31^a
Trichlorofluoromethane (CFC-11)	ppb	NC	NC	2.7 U	2.6 U	0.35 J	0.10 U
Trifluorotrichloroethane (Freon 113)	ppb	NC	NC	0.81 U	3.3 U	0.25 U	0.032 J
Vinyl bromide (Bromoethene)	ppb	NC	NC	1.5 U	3.7 U	0.28 U	0.057 U
Vinyl chloride	ppb	20	200	2.3 U	7.6 U	0.57 U	0.087 U
Xylenes (total)	ppb	NC	NC	1.8 U	-	-	1.5

TABLE 1

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SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO**

<i>Sample Location:</i>	<i>Building 8, Probe A</i>	<i>Building 8, Probe A</i>	<i>Building 8, Probe A</i>	<i>Building 8, Probe B</i>	<i>Building 8, Probe B</i>	<i>Building 8, Probe B</i>
<i>Sample Location:</i>	<i>1951 Dryden Road</i>	<i>1951 Dryden Road</i>	<i>1951 Dryden Road</i>	<i>1951 Dryden Road</i>	<i>1951 Dryden Road</i>	<i>1951 Dryden Road</i>
<i>Sample Date:</i>	<i>1/11/2012</i>	<i>3/14/2012</i>	<i>8/7/2012</i>	<i>1/11/2012</i>	<i>3/14/2012</i>	<i>8/7/2012</i>
<i>Parameter</i>	<i>ODH Sub-Slab Screening Levels (Non-residential)</i>	<i>ODH Sub-Slab Action Levels (Non-residential)</i>				
	<i>a</i>	<i>b</i>				
<i>Tentatively Identified Compounds (TIC) Volatiles</i>						
2-Methylbutane A	ppb	NC	NC	-	21 NJ	-
Acetaldehyde A	ppb	110	NC	-	-	-
Propane A	ppb	NC	NC	-	U	-
Unknown A	ppb	NC	NC	-	-	-
Unknown B	ppb	NC	NC	-	-	-
<i>Gases</i>						
Methane	%	0.5	0.5	-	0.21 U	0.068 U
<i>Field Parameter</i>						
Methane, field (unfiltered)	%	0.5	0.5	0.0 / 0.0	-	0.0 / 0.0
Methane, field (filtered)	%	0.5	0.5	-	0.0 / 0	0.0 / 0

Notes:

J - The chemical was detected by the laboratory, the listed value is an approximate concentration

JN or NJ - The listed value of the tentatively identified compound is an approximate concentration

U - The chemical was not detected in the sample at the detection limit shown.

UJ - The chemical was not detected in the sample at the approximate detection limit shown.

NC - No criterion

-- Not applicable.

[redacted] - Concentration was greater than applicable criteria.

TABLE 1

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BUILDINGS 8 AND 9 - 1951 DRYDEN ROAD
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO**

<i>Sample Location:</i>	<i>Building 8, Probe C</i>	<i>Building 8, Probe C</i>	<i>Building 8, Probe C</i>	<i>Building 8, Probe D</i>	<i>Building 8, Probe D</i>	<i>Building 8, Probe D</i>			
<i>Sample Location:</i>	<i>1951 Dryden Road</i>	<i>1951 Dryden Road</i>	<i>1951 Dryden Road</i>	<i>1951 Dryden Road</i>	<i>1951 Dryden Road</i>	<i>1951 Dryden Road</i>			
<i>Sample Date:</i>	<i>1/11/2012</i>	<i>3/14/2012</i>	<i>8/7/2012</i>	<i>1/11/2012</i>	<i>3/14/2012</i>	<i>3/14/2012</i>			
<i>Parameter</i>	<i>ODH Sub-Slab Screening Levels (Non-residential)</i>	<i>ODH Sub-Slab Action Levels (Non-residential)</i>							
		<i>a</i>	<i>b</i>						
Volatile Organic Compounds									
1,1,1-Trichloroethane	ppb	NC	NC	0.19 J	0.33 J	0.58 J	0.69 U	1.8 J	1.6 J
1,1,2,2-Tetrachloroethane	ppb	NC	NC	0.060 U	0.65 U	0.30 U	0.79 U	1.8 U	1.8 U
1,1,2-Trichloroethane	ppb	NC	NC	0.029 U	0.57 U	0.27 U	0.37 U	1.5 U	1.5 U
1,1-Dichloroethane	ppb	160	1600	0.076 J	0.28 U	0.22 J	0.69 U	0.75 U	0.75 U
1,1-Dichloroethene	ppb	NC	NC	0.045 U	0.34 U	0.16 U	0.59 U	0.92 U	0.92 U
1,2,4-Trichlorobenzene	ppb	NC	NC	0.075 U	1.0 U	0.49 U	0.99 U	2.8 U	2.8 U
1,2,4-Trimethylbenzene	ppb	NC	NC	0.078 U	0.67 U	0.32 U	1.0 U	1.8 U	1.8 U
1,2-Dibromoethane (Ethylene dibromide)	ppb	NC	NC	0.027 U	0.47 U	0.22 U	0.35 U	1.3 U	1.3 U
1,2-Dichlorobenzene	ppb	NC	NC	0.072 U	0.74 U	0.35 U	0.95 U	2.0 U	2.0 U
1,2-Dichloroethane	ppb	NC	NC	0.047 U	0.50 U	0.24 U	0.61 U	1.3 U	1.3 U
1,2-Dichloroethene (total)	ppb	NC	NC	1.8	-	-	16	-	-
1,2-Dichloropropane	ppb	NC	NC	0.021 U	0.55 U	0.26 U	0.28 U	1.5 U	1.5 U
1,2-Dichlortetrafluoroethane (CFC 114)	ppb	NC	NC	0.048 U	0.34 U	0.16 U	0.63 U	0.92 U	0.92 U
1,3,5-Trimethylbenzene	ppb	NC	NC	0.077 U	0.69 UJ	0.32 U	1.0 U	1.9 U	1.9 U
1,3-Butadiene	ppb	NC	NC	0.015 U	0.68 U	0.32 U	0.20 U	1.8 U	1.8 U
1,3-Dichlorobenzene	ppb	NC	NC	0.066 U	0.69 U	0.32 U	0.87 U	1.9 U	1.9 U
1,4-Dichlorobenzene	ppb	NC	NC	0.066 U	0.68 U	0.32 U	0.87 U	1.8 UJ	1.8 UJ
1,4-Dioxane	ppb	NC	NC	0.13 U	0.85 U	0.40 U	1.7 U	2.3 U	2.3 U
2,2,4-Trimethylpentane	ppb	NC	NC	0.054 U	0.41 U	0.20 U	0.71 U	1.1 U	1.1 U
2-Butanone (Methyl ethyl ketone) (MEK)	ppb	NC	NC	0.30 J	2.1 U	1.0 U	0.33 U	5.7 U	5.7 U
2-Chlorotoluene	ppb	NC	NC	0.071 U	0.67 U	0.32 U	0.93 U	1.8 U	1.8 U
2-Hexanone	ppb	NC	NC	0.059 U	0.61 U	0.29 U	0.77 U	1.7 U	1.7 U
2-Phenylbutane (sec-Butylbenzene)	ppb	NC	NC	0.071 U	0.68 U	0.32 U	0.93 U	1.8 U	1.8 U
4-Ethyl toluene	ppb	NC	NC	0.069 U	0.70 U	0.33 U	0.91 U	1.9 U	1.9 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ppb	NC	NC	0.039 U	0.48 U	0.22 U	0.51 U	1.3 U	1.3 U
Acetone	ppb	NC	NC	7.0 J	15 U	7.0 U	9.9 J	40 U	40 U
Allyl chloride	ppb	NC	NC	0.029 U	0.51 U	0.24 U	0.37 U	1.4 U	1.4 U
Benzene	ppb	20	200	0.077 J	0.59 U	0.28 U	0.35 U	1.6 U	1.6 U
Benzyl chloride	ppb	NC	NC	0.069 UJ	0.83 U	0.39 U	0.91 UJ	2.2 U	2.2 U
Bromodichloromethane	ppb	NC	NC	0.042 U	0.47 U	0.22 U	0.55 U	1.3 U	1.3 U
Bromoform	ppb	NC	NC	0.029 U	0.51 U	0.24 U	0.37 U	1.4 U	1.4 U
Bromomethane (Methyl bromide)	ppb	NC	NC	0.018 U	0.34 U	0.16 U	0.24 U	0.92 U	0.92 U
Butane	ppb	NC	NC	0.017 U	0.94 J	0.32 J	0.22 U	6.6 J	8.0 J
Carbon disulfide	ppb	NC	NC	1.1	0.33 U	0.16 U	1.3 U	0.89 U	0.89 U
Carbon tetrachloride	ppb	NC	NC	0.050 U	0.40 UJ	0.19 U	0.65 U	1.1 U	1.1 U
Chlorobenzene	ppb	NC	NC	0.030 U	0.52 U	0.24 U	0.39 U	1.4 U	1.4 U
Chlorodifluoromethane	ppb	NC	NC	0.051 U	0.39 U	0.18 U	0.67 U	1.6 J	1.6 J
Chloroethane	ppb	NC	NC	0.024 U	0.37 U	0.18 U	0.32 U	1.0 U	1.0 U
Chloroform (Trichloromethane)	ppb	800	8000	0.89	1.4 J	3.3	3.8 J	4.9 J	5.0 J
Chloromethane (Methyl chloride)	ppb	NC	NC	0.17 J	1.7 U	0.80 U	0.26 U	4.6 U	4.6 U

TABLE 1

**SUMMARY OF SUB-SLAB SOIL VAPOR ANALYTICAL RESULTS
BUILDINGS 8 AND 9 - 1951 DRYDEN ROAD
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO**

Sample Location:	Building 8, Probe C 1951 Dryden Road 1/11/2012		Building 8, Probe C 1951 Dryden Road 3/14/2012		Building 8, Probe C 1951 Dryden Road 8/7/2012		Building 8, Probe D 1951 Dryden Road 1/11/2012		Building 8, Probe D 1951 Dryden Road 3/14/2012	Building 8, Probe D 1951 Dryden Road 3/14/2012 Duplicate
Parameter	Units	ODH Sub-Slab Screening Levels (Non-residential)	ODH Sub-Slab Action Levels (Non-residential)	a	b					
cis-1,2-Dichloroethene	ppb	370	3700	1.7	2.7	5.0	10	13	14	
cis-1,3-Dichloropropene	ppb	NC	NC	0.024 U	0.78 U	0.37 U	0.32 U	2.1 U	2.1 U	
Cyclohexane	ppb	NC	NC	0.084 J	0.42 U	0.27 J	0.77 U	1.1 U	1.1 U	
Cymene (p-Isopropyltoluene)	ppb	NC	NC	0.072 U	0.60 U	0.28 U	0.95 U	1.6 U	1.6 U	
Dibromochloromethane	ppb	NC	NC	0.032 U	0.45 U	0.21 U	0.41 U	1.2 U	1.2 U	
Dichlorodifluoromethane (CFC-12)	ppb	NC	NC	7.5	9.1	5.9	2.6 J	7.0 J	3.9 J	
Ethylbenzene	ppb	2500	25000	0.10 J	0.72 U	0.34 U	0.43 U	2.0 U	2.0 U	
Hexachlorobutadiene	ppb	NC	NC	0.098 U	0.83 U	0.39 U	1.3 U	2.2 U	2.2 U	
Hexane	ppb	NC	NC	0.071 J	0.35 J	0.20 J	0.51 U	0.92 U	0.92 U	
Isopropyl alcohol	ppb	NC	NC	2.3 J	1.7 J	0.76 J	0.73 U	1.3 U	1.3 U	
Isopropyl benzene	ppb	NC	NC	0.047 U	0.64 U	0.30 U	0.61 U	1.7 U	1.7 U	
m&p-Xylenes	ppb	2000	20000	0.42 J	1.3 U	0.60 U	0.95 U	3.4 U	3.4 U	
Methyl methacrylate	ppb	NC	NC	0.020 U	0.84 U	0.40 U	0.26 U	2.3 U	2.3 U	
Methyl tert butyl ether (MTBE)	ppb	NC	NC	0.024 U	1.8 U	0.85 U	0.32 U	4.9 U	4.9 U	
Methylene chloride	ppb	NC	NC	0.12 J	0.48 U	0.22 U	0.26 U	5.6 J	4.6 J	
Naphthalene	ppb	29	NC	0.13 UJ	0.95 U	0.45 U	1.7 UJ	2.6 U	2.6 U	
N-Butylbenzene	ppb	NC	NC	0.083 U	0.49 U	0.23 U	1.1 U	1.3 U	1.3 U	
N-Decane	ppb	NC	NC	-	1.8 J	0.42 J	-	-	-	
N-Dodecane	ppb	NC	NC	-	0.83 U	0.39 U	-	-	-	
N-Heptane	ppb	NC	NC	0.25 J	0.53 J	0.24 U	2.3 J	1.3 U	1.3 U	
Nonane	ppb	NC	NC	-	1.4 J	0.22 U	-	-	-	
N-Propylbenzene	ppb	NC	NC	0.075 U	0.59 U	0.28 U	0.99 U	1.6 U	1.6 U	
N-Undecane	ppb	NC	NC	-	0.66 U	0.31 U	-	-	-	
Octane	ppb	NC	NC	-	0.38 U	0.18 U	-	-	-	
o-Xylene	ppb	2000	20000	0.15 J	0.65 U	0.30 U	0.43 U	1.8 U	1.8 U	
Pentane	ppb	NC	NC	-	0.64 U	0.30 U	-	-	-	
Styrene	ppb	NC	NC	0.045 U	0.61 U	0.29 U	0.59 U	1.7 U	1.7 U	
tert-Butyl alcohol	ppb	NC	NC	0.11 U	1.6 J	1.2 J	1.4 U	1.1 U	1.1 U	
tert-Butylbenzene	ppb	NC	NC	0.071 U	0.70 U	0.33 U	0.93 U	1.9 U	1.9 U	
Tetrachloroethene	ppb	250	2500	21	32	78	8.4	14	11	
Tetrahydrofuran	ppb	NC	NC	0.027 U	0.67 U	0.32 U	0.35 U	1.8 U	1.8 U	
Toluene	ppb	NC	NC	39	0.98 J	0.30 J	8.1	1.5 U	1.5 U	
trans-1,2-Dichloroethene	ppb	NC	NC	0.16 J	0.53 U	0.42 J	5.7	6.8	6.9	
trans-1,3-Dichloropropene	ppb	NC	NC	0.030 U	0.51 U	0.24 U	0.39 U	1.4 U	1.4 U	
Trichloroethene	ppb	20	200	11	17	35^a	420^{a,b}	420^{ab}	350^{ab}	
Trichlorofluoromethane (CFC-11)	ppb	NC	NC	0.17 J	0.25 U	0.16 J	0.67 U	0.69 U	0.69 U	
Trifluorotrichloroethane (Freon 113)	ppb	NC	NC	0.045 J	0.33 U	0.16 U	0.20 U	0.89 U	0.89 U	
Vinyl bromide (Bromoethene)	ppb	NC	NC	0.029 U	0.37 U	0.18 U	0.37 U	1.0 U	1.0 U	
Vinyl chloride	ppb	20	200	0.044 U	0.75 U	0.36 U	0.57 U	2.0 U	2.0 U	
Xylenes (total)	ppb	NC	NC	0.57	-	-	0.43 U	-	-	

TABLE 1

**SUMMARY OF SUB-SLAB SOIL VAPOR ANALYTICAL RESULTS
BUILDINGS 8 AND 9 - 1951 DRYDEN ROAD
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO**

<i>Sample Location:</i>	<i>Building 8, Probe C</i>	<i>Building 8, Probe C</i>	<i>Building 8, Probe C</i>	<i>Building 8, Probe D</i>	<i>Building 8, Probe D</i>	<i>Building 8, Probe D</i>
<i>Sample Location:</i>	<i>1951 Dryden Road</i>	<i>1951 Dryden Road</i>	<i>1951 Dryden Road</i>	<i>1951 Dryden Road</i>	<i>1951 Dryden Road</i>	<i>1951 Dryden Road</i>
<i>Sample Date:</i>	<i>1/11/2012</i>	<i>3/14/2012</i>	<i>8/7/2012</i>	<i>1/11/2012</i>	<i>3/14/2012</i>	<i>3/14/2012</i>
<i>Parameter</i>	<i>ODH Sub-Slab Screening Levels (Non-residential)</i>	<i>ODH Sub-Slab Action Levels (Non-residential)</i>				<i>Duplicate</i>
			<i>a</i>	<i>b</i>		
<i>Tentatively Identified Compounds (TIC) Volatiles</i>						
2-Methylbutane A	ppb	NC	NC	-	-	-
Acetaldehyde A	ppb	110	NC	-	-	-
Propane A	ppb	NC	NC	-	U	-
Unknown A	ppb	NC	NC	-	-	65 NJ
Unknown B	ppb	NC	NC	-	-	16 NJ
<i>Gases</i>						
Methane	%	0.5	0.5	-	0.19 U	0.20 U
<i>Field Parameter</i>						
Methane, field (unfiltered)	%	0.5	0.5	0.0 / 0.0	-	0.0 / 0.0
Methane, field (filtered)	%	0.5	0.5	-	0.0 / 0.0	0.0 / 0.0

Notes:

J - The chemical was detected by the laboratory, the listed value is an approximate concentration

JN or NJ - The listed value of the tentatively identified compound is an approximate concentration

U - The chemical was not detected in the sample at the detection limit shown.

UJ - The chemical was not detected in the sample at the approximate detection limit shown.

NC - No criterion

-- Not applicable.

[redacted] - Concentration was greater than applicable criteria.

TABLE 1

**SUMMARY OF SUB-SLAB SOIL VAPOR ANALYTICAL RESULTS
BUILDINGS 8 AND 9 - 1951 DRYDEN ROAD
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO**

<i>Sample Location:</i>	<i>Building 8, Probe D</i>			<i>Building 8, Probe F</i>			<i>Building 8, Probe F</i>		<i>Building 8, Probe F</i>	
<i>Sample Location:</i>	<i>1951 Dryden Road</i>			<i>1951 Dryden Road</i>			<i>1951 Dryden Road</i>		<i>1951 Dryden Road</i>	
<i>Sample Date:</i>	<i>8/7/2012</i>			<i>1/11/2012</i>			<i>1/11/2012</i>		<i>3/14/2012</i>	
<i>Parameter</i>	<i>ODH Sub-Slab Units</i>	<i>ODH Sub-Slab Screening Levels (Non-residential)</i>	<i>ODH Sub-Slab Action Levels (Non-residential)</i>	<i>a</i>	<i>b</i>					
Volatile Organic Compounds										
1,1,1-Trichloroethane	ppb	NC	NC	2.3 J	0.035 U	0.052 U	0.045 J	0.030 U		
1,1,2,2-Tetrachloroethane	ppb	NC	NC	2.4 U	0.040 U	0.060 U	0.061 U	0.061 U		
1,1,2-Trichloroethane	ppb	NC	NC	2.1 U	0.019 U	0.028 U	0.054 U	0.054 U		
1,1-Dichloroethane	ppb	160	1600	1.0 U	0.035 U	0.052 U	0.026 U	0.026 U		
1,1-Dichloroethene	ppb	NC	NC	1.3 U	0.030 U	0.045 U	0.032 U	0.032 U		
1,2,4-Trichlorobenzene	ppb	NC	NC	3.8 U	0.050 U	0.075 U	0.098 U	0.098 U		
1,2,4-Trimethylbenzene	ppb	NC	NC	2.5 U	0.20	0.11 J	0.22	0.20		
1,2-Dibromoethane (Ethylene dibromide)	ppb	NC	NC	1.7 U	0.018 U	0.027 U	0.044 U	0.044 U		
1,2-Dichlorobenzene	ppb	NC	NC	2.7 U	0.048 U	0.072 U	0.070 U	0.070 U		
1,2-Dichloroethane	ppb	NC	NC	1.8 U	0.031 U	0.046 U	0.047 U	0.047 U		
1,2-Dichloroethene (total)	ppb	NC	NC	-	0.060 J	0.021 U	-	-		
1,2-Dichloropropane	ppb	NC	NC	2.0 U	0.014 U	0.021 U	0.052 U	0.052 U		
1,2-Dichlorotetrafluoroethane (CFC 114)	ppb	NC	NC	1.3 U	0.032 U	0.048 U	0.032 U	0.032 U		
1,3,5-Trimethylbenzene	ppb	NC	NC	2.6 U	0.059 J	0.076 U	0.065 U	0.065 U		
1,3-Butadiene	ppb	NC	NC	2.5 U	0.010 U	0.015 U	0.064 U	0.064 U		
1,3-Dichlorobenzene	ppb	NC	NC	2.6 U	0.044 U	0.066 U	0.065 U	0.065 U		
1,4-Dichlorobenzene	ppb	NC	NC	2.5 U	0.044 U	0.066 U	0.064 UJ	0.064 U		
1,4-Dioxane	ppb	NC	NC	3.1 U	0.088 U	0.13 U	0.080 U	0.080 U		
2,2,4-Trimethylpentane	ppb	NC	NC	1.5 U	0.036 U	0.054 U	0.044 J	0.062 J		
2-Butanone (Methyl ethyl ketone) (MEK)	ppb	NC	NC	7.9 U	0.47 J	0.27 J	0.69 J	1.3		
2-Chlorotoluene	ppb	NC	NC	2.5 U	0.047 U	0.070 U	0.063 U	0.063 U		
2-Hexanone	ppb	NC	NC	2.3 U	0.039 U	0.058 U	0.058 U	0.064 J		
2-Phenylbutane (sec-Butylbenzene)	ppb	NC	NC	2.5 U	0.047 U	0.070 U	0.064 U	0.064 U		
4-Ethyl toluene	ppb	NC	NC	2.6 U	0.055 J	0.069 U	0.066 U	0.071 J		
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ppb	NC	NC	1.8 U	0.026 U	0.039 U	0.045 U	0.14 J		
Acetone	ppb	NC	NC	55 UJ	7.7	8.2	18	7.2 J		
Allyl chloride	ppb	NC	NC	1.9 U	0.019 U	0.028 U	0.048 U	0.048 U		
Benzene	ppb	20	200	2.2 U	0.17 J	0.18 J	0.26	0.23		
Benzyl chloride	ppb	NC	NC	3.1 U	0.046 UJ	0.069 UJ	0.078 U	0.078 U		
Bromodichloromethane	ppb	NC	NC	1.7 U	0.028 U	0.042 U	0.044 U	0.044 U		
Bromoform	ppb	NC	NC	1.9 U	0.019 U	0.028 U	0.048 U	0.048 U		
Bromomethane (Methyl bromide)	ppb	NC	NC	1.3 U	0.012 U	0.018 U	0.032 U	0.032 U		
Butane	ppb	NC	NC	2.5 U	2.2	2.6	3.9 J	2.8		
Carbon disulfide	ppb	NC	NC	1.2 U	0.15 J	0.098 U	0.031 U	0.18 J		
Carbon tetrachloride	ppb	NC	NC	1.5 U	0.067 J	0.070 J	0.073 J	0.076 J		
Chlorobenzene	ppb	NC	NC	1.9 U	0.020 U	0.030 U	0.049 U	0.049 U		
Chlorodifluoromethane	ppb	NC	NC	1.5 U	0.034 U	0.051 U	0.65 J	0.51		
Chloroethane	ppb	NC	NC	1.4 U	0.016 U	0.024 U	0.035 U	0.035 U		
Chloroform (Trichloromethane)	ppb	800	8000	7.4 J	0.19 J	0.20 J	0.22	0.14 J		
Chloromethane (Methyl chloride)	ppb	NC	NC	6.3 U	0.013 U	0.019 U	0.16 U	0.16 J		

TABLE 1

**SUMMARY OF SUB-SLAB SOIL VAPOR ANALYTICAL RESULTS
BUILDINGS 8 AND 9 - 1951 DRYDEN ROAD
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO**

<i>Sample Location:</i>	<i>Building 8, Probe D</i>		<i>Building 8, Probe F</i>		<i>Building 8, Probe F</i>	<i>Building 8, Probe F</i>	<i>Building 8, Probe F</i>
<i>Sample Location:</i>	<i>1951 Dryden Road</i>		<i>1951 Dryden Road</i>		<i>1951 Dryden Road</i>	<i>1951 Dryden Road</i>	<i>1951 Dryden Road</i>
<i>Sample Date:</i>	<i>8/7/2012</i>		<i>1/11/2012</i>		<i>1/11/2012</i>	<i>3/14/2012</i>	<i>8/7/2012</i>
<i>Parameter</i>	<i>ODH Sub-Slab Units</i>	<i>ODH Sub-Slab Screening Levels (Non-residential)</i>	<i>ODH Sub-Slab Action Levels (Non-residential)</i>	<i>a</i>	<i>b</i>		
cis-1,2-Dichloroethene	ppb	370	3700	20	0.014 U	0.021 U	0.060 U
cis-1,3-Dichloropropene	ppb	NC	NC	2.9 U	0.016 U	0.024 U	0.074 U
Cyclohexane	ppb	NC	NC	1.6 U	0.11 J	0.12 J	0.16 J
Cymene (p-Isopropyltoluene)	ppb	NC	NC	2.2 U	0.048 U	0.072 U	0.057 U
Dibromochloromethane	ppb	NC	NC	1.6 U	0.021 U	0.031 U	0.042 U
Dichlorodifluoromethane (CFC-12)	ppb	NC	NC	2.7 U	0.62	0.65 J	0.60
Ethylbenzene	ppb	2500	25000	2.7 U	0.20	0.18 J	0.43
Hexachlorobutadiene	ppb	NC	NC	3.1 U	0.065 U	0.097 U	0.078 U
Hexane	ppb	NC	NC	1.3 U	0.34	0.42	0.55
Isopropyl alcohol	ppb	NC	NC	1.8 J	0.96 J	2.1 J	2.2
Isopropyl benzene	ppb	NC	NC	2.4 U	0.065 J	0.048 J	0.090 J
m,p-Xylenes	ppb	2000	20000	4.7 U	0.44 J	0.31 J	1.2
Methyl methacrylate	ppb	NC	NC	3.1 U	0.013 U	0.019 U	0.079 U
Methyl tert butyl ether (MTBE)	ppb	NC	NC	6.7 U	0.016 U	0.024 U	0.17 U
Methylene chloride	ppb	NC	NC	1.8 U	0.12 J	0.14 J	0.32 J
Naphthalene	ppb	29	NC	3.5 U	0.086 UJ	0.13 J	0.090 U
N-Butylbenzene	ppb	NC	NC	1.8 U	0.055 U	0.082 U	0.046 U
N-Decane	ppb	NC	NC	2.2 U	-	-	-
N-Dodecane	ppb	NC	NC	3.1 U	-	-	0.25 J
N-Heptane	ppb	NC	NC	1.8 U	0.48	0.59	1.4
Nonane	ppb	NC	NC	1.7 U	-	-	0.88
N-Propylbenzene	ppb	NC	NC	2.2 U	0.050 U	0.075 U	0.056 U
N-Undecane	ppb	NC	NC	2.4 U	-	-	0.42 J
Octane	ppb	NC	NC	1.4 U	-	-	0.11 J
o-Xylene	ppb	2000	20000	2.4 U	0.18 J	0.13 J	0.37
Pentane	ppb	NC	NC	2.4 U	-	-	1.9
Styrene	ppb	NC	NC	2.3 U	0.030 U	0.045 U	0.058 U
tert-Butyl alcohol	ppb	NC	NC	1.5 U	0.44 J	0.11 U	0.48 J
tert-Butylbenzene	ppb	NC	NC	2.6 U	0.047 U	0.070 U	0.066 U
Tetrachloroethene	ppb	250	2500	28	0.59	0.62	0.81
Tetrahydrofuran	ppb	NC	NC	2.5 U	0.018 U	0.027 U	0.063 U
Toluene	ppb	NC	NC	2.1 U	0.51	0.38	1.2
trans-1,2-Dichloroethene	ppb	NC	NC	13	0.060 J	0.048 U	0.076 J
trans-1,3-Dichloropropene	ppb	NC	NC	1.9 U	0.020 U	0.030 U	0.048 U
Trichloroethene	ppb	20	200	930 ^{ab}	5.3	5.6	5.3
Trichlorofluoromethane (CFC-11)	ppb	NC	NC	0.94 U	0.24	0.26 J	0.28
Trifluorotrichloroethane (Freon 113)	ppb	NC	NC	1.2 U	0.069 J	0.073 J	0.069 J
Vinyl bromide (Bromoethene)	ppb	NC	NC	1.4 U	0.019 U	0.028 U	0.035 U
Vinyl chloride	ppb	20	200	2.8 U	0.029 U	0.043 U	0.071 U
Xylenes (total)	ppb	NC	NC	-	0.62	0.44	-

TABLE 1

SUMMARY OF SUB-SLAB SOIL VAPOR ANALYTICAL RESULTS
BUILDINGS 8 AND 9 - 1951 DRYDEN ROAD
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:	Building 8, Probe D	Building 8, Probe F	Building 8, Probe F	Building 8, Probe F	Building 8, Probe F
Sample Location:	1951 Dryden Road	1951 Dryden Road	1951 Dryden Road	1951 Dryden Road	1951 Dryden Road
Sample Date:	8/7/2012	1/11/2012	1/11/2012	3/14/2012	8/7/2012
Parameter	ODH Sub-Slab Screening Levels (Non-residential)	ODH Sub-Slab Action Levels (Non-residential)	a	b	
Tentatively Identified Compounds (TIC) Volatiles					
2-Methylbutane A	ppb	NC	NC	-	-
Acetaldehyde A	ppb	110	NC	-	-
Propane A	ppb	NC	NC	U	-
Unknown A	ppb	NC	NC	-	-
Unknown B	ppb	NC	NC	-	-
Gases					
Methane	%	0.5	0.5	0.19 U	-
Field Parameter					
Methane, field (unfiltered)	%	0.5	0.5	-	0.0 / 0.0
Methane, field (filtered)	%	0.5	0.5	0 / 0	0.0 / 0.0

Notes:

J - The chemical was detected by the laboratory, the listed value is an approximate concentration

JN or NJ - The listed value of the tentatively identified compound is an approximate concentration

U - The chemical was not detected in the sample at the detection limit shown.

UJ - The chemical was not detected in the sample at the approximate detection limit shown.

NC - No criterion

-- Not applicable.

[redacted] - Concentration was greater than applicable criteria.

TABLE 1

**SUMMARY OF SUB-SLAB SOIL VAPOR ANALYTICAL RESULTS
BUILDINGS 8 AND 9 - 1951 DRYDEN ROAD
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO**

<i>Sample Location:</i>	<i>Building 9, Probe A</i>			<i>Building 9, Probe A</i>			<i>Building 9, Probe A</i>			<i>Building 9, Probe A</i>		
<i>Sample Location:</i>	1951 Dryden Road			1951 Dryden Road			1951 Dryden Road			1951 Dryden Road		
<i>Sample Date:</i>	1/11/2012			1/11/2012			3/26/2012			3/27/2012		
<i>Parameter</i>	<i>Units</i>	<i>ODH Sub-Slab Screening Levels (Non-residential)</i>	<i>ODH Sub-Slab Action Levels (Non-residential)</i>	<i>a</i>	<i>b</i>							
Volatile Organic Compounds												
1,1,1-Trichloroethane	ppb	NC	NC	12 J	13 J	-	20 J	-	-	-	-	-
1,1,2,2-Tetrachloroethane	ppb	NC	NC	4.0 U	4.0 U	-	10 U	-	-	-	-	-
1,1,2-Trichloroethane	ppb	NC	NC	1.9 U	1.9 U	-	8.9 U	-	-	-	-	-
1,1-Dichloroethane	ppb	160	1600	3.5 U	3.5 U	-	4.3 U	-	-	-	-	-
1,1-Dichloroethene	ppb	NC	NC	3.0 U	3.0 U	-	5.3 U	-	-	-	-	-
1,2,4-Trichlorobenzene	ppb	NC	NC	5.0 U	5.0 U	-	16 U	-	-	-	-	-
1,2,4-Trimethylbenzene	ppb	NC	NC	5.2 U	5.2 U	-	10 U	-	-	-	-	-
1,2-Dibromoethane (Ethylene dibromide)	ppb	NC	NC	1.8 U	1.8 U	-	7.3 U	-	-	-	-	-
1,2-Dichlorobenzene	ppb	NC	NC	4.8 U	4.8 U	-	12 U	-	-	-	-	-
1,2-Dichloroethane	ppb	NC	NC	3.1 U	3.1 U	-	7.7 U	-	-	-	-	-
1,2-Dichloroethene (total)	ppb	NC	NC	1.4 U	1.4 U	-	-	-	-	-	-	-
1,2-Dichloropropane	ppb	NC	NC	1.4 U	1.4 U	-	8.6 U	-	-	-	-	-
1,2-Dichlorotetrafluoroethane (CFC 114)	ppb	NC	NC	3.2 U	3.2 U	-	5.3 U	-	-	-	-	-
1,3,5-Trimethylbenzene	ppb	NC	NC	5.1 U	5.1 U	-	11 UJ	-	-	-	-	-
1,3-Butadiene	ppb	NC	NC	1.0 U	1.0 U	-	11 U	-	-	-	-	-
1,3-Dichlorobenzene	ppb	NC	NC	4.4 U	4.4 U	-	11 U	-	-	-	-	-
1,4-Dichlorobenzene	ppb	NC	NC	4.4 U	4.4 U	-	11 U	-	-	-	-	-
1,4-Dioxane	ppb	NC	NC	8.8 U	8.8 U	-	13 U	-	-	-	-	-
2,2,4-Trimethylpentane	ppb	NC	NC	3.6 U	3.6 U	-	6.4 U	-	-	-	-	-
2-Butanone (Methyl ethyl ketone) (MEK)	ppb	NC	NC	1.7 U	1.7 U	-	33 U	-	-	-	-	-
2-Chlorotoluene	ppb	NC	NC	4.7 U	4.7 U	-	10 U	-	-	-	-	-
2-Hexanone	ppb	NC	NC	3.9 U	3.9 U	-	9.6 U	-	-	-	-	-
2-Phenylbutane (sec-Butylbenzene)	ppb	NC	NC	4.7 U	4.7 U	-	11 U	-	-	-	-	-
4-Ethyl toluene	ppb	NC	NC	4.6 U	4.6 U	-	11 U	-	-	-	-	-
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ppb	NC	NC	2.6 U	2.6 U	-	7.4 U	-	-	-	-	-
Acetone	ppb	NC	NC	10 J	10 J	-	230 U	-	-	-	-	-
Allyl chloride	ppb	NC	NC	1.9 U	1.9 U	-	7.9 U	-	-	-	-	-
Benzene	ppb	20	200	1.8 U	1.8 U	-	9.2 U	-	-	-	-	-
Benzyl chloride	ppb	NC	NC	4.6 UJ	4.6 UJ	-	13 U	-	-	-	-	-
Bromodichloromethane	ppb	NC	NC	2.8 U	2.8 U	-	7.3 U	-	-	-	-	-
Bromoform	ppb	NC	NC	1.9 U	1.9 U	-	7.9 U	-	-	-	-	-
Bromomethane (Methyl bromide)	ppb	NC	NC	1.2 U	1.2 U	-	5.3 U	-	-	-	-	-
Butane	ppb	NC	NC	1.1 U	1.1 U	-	11 U	-	-	-	-	-
Carbon disulfide	ppb	NC	NC	6.6 U	6.6 U	-	5.1 U	-	-	-	-	-
Carbon tetrachloride	ppb	NC	NC	3.3 U	3.3 U	-	6.3 UJ	-	-	-	-	-
Chlorobenzene	ppb	NC	NC	2.0 U	2.0 U	-	8.1 U	-	-	-	-	-
Chlorodifluoromethane	ppb	NC	NC	3.4 U	3.4 U	-	6.1 U	-	-	-	-	-
Chloroethane	ppb	NC	NC	1.6 U	1.6 U	-	5.8 U	-	-	-	-	-
Chloroform (Trichloromethane)	ppb	800	8000	4.6 J	4.3 J	-	8.6 J	-	-	-	-	-
Chloromethane (Methyl chloride)	ppb	NC	NC	1.3 U	1.3 U	-	26 U	-	-	-	-	-

TABLE 1

**SUMMARY OF SUB-SLAB SOIL VAPOR ANALYTICAL RESULTS
BUILDINGS 8 AND 9 - 1951 DRYDEN ROAD
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO**

<i>Sample Location:</i>		<i>Building 9, Probe A</i>	<i>Building 9, Probe A</i>	<i>Building 9, Probe A</i>	<i>Building 9, Probe A</i>	<i>Building 9, Probe A</i>
<i>Sample Location:</i>		<i>1951 Dryden Road</i>	<i>1951 Dryden Road</i>	<i>1951 Dryden Road</i>	<i>1951 Dryden Road</i>	<i>1951 Dryden Road</i>
<i>Sample Date:</i>		<i>1/11/2012</i>	<i>1/11/2012</i>	<i>3/26/2012</i>	<i>3/27/2012</i>	<i>8/7/2012</i>
<i>Parameter</i>	<i>Units</i>	<i>ODH Sub-Slab Screening Levels (Non-residential)</i>	<i>ODH Sub-Slab Action Levels (Non-residential)</i>	<i>Building 9, Probe A</i>	<i>Building 9, Probe A</i>	<i>Building 9, Probe A</i>
			<i>a</i>	<i>b</i>		
cis-1,2-Dichloroethene	ppb	370	3700	1.4 U	1.4 U	-
cis-1,3-Dichloropropene	ppb	NC	NC	1.6 U	1.6 U	-
Cyclohexane	ppb	NC	NC	3.9 U	3.9 U	-
Cymene (p-Isopropyltoluene)	ppb	NC	NC	4.8 U	4.8 U	-
Dibromochloromethane	ppb	NC	NC	2.1 U	2.1 U	-
Dichlorodifluoromethane (CFC-12)	ppb	NC	NC	3.8 U	3.8 U	-
Ethylbenzene	ppb	2500	25000	2.2 U	2.2 U	-
Hexachlorobutadiene	ppb	NC	NC	6.5 U	6.5 U	-
Hexane	ppb	NC	NC	2.6 U	2.6 U	-
Isopropyl alcohol	ppb	NC	NC	3.7 U	3.7 U	-
Isopropyl benzene	ppb	NC	NC	3.1 U	3.1 U	-
m&p-Xylenes	ppb	2000	20000	4.8 U	4.8 U	-
Methyl methacrylate	ppb	NC	NC	1.3 U	1.3 U	-
Methyl tert butyl ether (MTBE)	ppb	NC	NC	1.6 U	1.6 U	-
Methylene chloride	ppb	NC	NC	7.7 J	6.1 J	-
Naphthalene	ppb	29	NC	8.6 UJ	8.6 UJ	-
N-Butylbenzene	ppb	NC	NC	5.5 U	5.5 U	-
N-Decane	ppb	NC	NC	-	-	-
N-Dodecane	ppb	NC	NC	-	-	-
N-Heptane	ppb	NC	NC	1.0 U	1.0 U	-
Nonane	ppb	NC	NC	-	-	-
N-Propylbenzene	ppb	NC	NC	5.0 U	5.0 U	-
N-Undecane	ppb	NC	NC	-	-	-
Octane	ppb	NC	NC	-	-	-
o-Xylene	ppb	2000	20000	2.2 U	2.2 U	-
Pentane	ppb	NC	NC	-	-	-
Styrene	ppb	NC	NC	3.0 U	3.0 U	-
tert-Butyl alcohol	ppb	NC	NC	7.1 U	7.1 U	-
tert-Butylbenzene	ppb	NC	NC	4.7 U	4.7 U	-
Tetrachloroethene	ppb	250	2500	48	54	-
Tetrahydrofuran	ppb	NC	NC	1.8 U	1.8 U	-
Toluene	ppb	NC	NC	9.4 J	9.4 J	-
trans-1,2-Dichloroethene	ppb	NC	NC	3.2 U	3.2 U	-
trans-1,3-Dichloropropene	ppb	NC	NC	2.0 U	2.0 U	-
Trichloroethene	ppb	20	200	1800^{a,b}	1800^{a,b}	-
Trichlorofluoromethane (CFC-11)	ppb	NC	NC	5.5 J	4.9 J	-
Trifluorotrichloroethane (Freon 113)	ppb	NC	NC	1.0 U	1.0 U	-
Vinyl bromide (Bromoethene)	ppb	NC	NC	1.9 U	1.9 U	-
Vinyl chloride	ppb	20	200	2.9 U	2.9 U	-
Xylenes (total)	ppb	NC	NC	2.2 U	2.2 U	-

TABLE 1

SUMMARY OF SUB-SLAB SOIL VAPOR ANALYTICAL RESULTS
BUILDINGS 8 AND 9 - 1951 DRYDEN ROAD
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:		Building 9, Probe A 1951 Dryden Road 1/11/2012	Building 9, Probe A 1951 Dryden Road 1/11/2012	Building 9, Probe A 1951 Dryden Road 3/26/2012	Building 9, Probe A 1951 Dryden Road 3/27/2012	Building 9, Probe A 1951 Dryden Road 8/7/2012
Parameter	Units	ODH Sub-Slab Screening Levels (Non-residential)	ODH Sub-Slab Action Levels (Non-residential)	a	b	
Tentatively Identified Compounds (TIC) Volatiles						
2-Methylbutane A	ppb	NC	NC	-	-	-
Acetaldehyde A	ppb	110	NC	-	-	-
Propane A	ppb	NC	NC	-	-	-
Unknown A	ppb	NC	NC	-	-	-
Unknown B	ppb	NC	NC	-	-	-
Gases						
Methane	%	0.5	0.5	-	-	-
Field Parameter						
Methane, field (unfiltered)	%	0.5	0.5	0.0 / 0.0	0.0 / 0.0	-
Methane, field (filtered)	%	0.5	0.5	-	-	0
						0

Notes:

J - The chemical was detected by the laboratory, the listed value is an approximate concentration

JN or NJ - The listed value of the tentatively identified compound is an approximate concentration

U - The chemical was not detected in the sample at the detection limit shown.

UJ - The chemical was not detected in the sample at the approximate detection limit shown.

NC - No criterion

-- Not applicable.

[redacted] - Concentration was greater than applicable criteria.

TABLE 1

**SUMMARY OF SUB-SLAB SOIL VAPOR ANALYTICAL RESULTS
BUILDINGS 8 AND 9 - 1951 DRYDEN ROAD
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO**

<i>Sample Location:</i>		<i>Building 9, Probe B</i>	<i>Building 9, Probe B</i>	<i>Building 9, Probe B</i>	<i>Building 9, Probe B</i>
<i>Sample Location:</i>		<i>1951 Dryden Road</i>	<i>1951 Dryden Road</i>	<i>1951 Dryden Road</i>	<i>1951 Dryden Road</i>
<i>Sample Date:</i>		<i>1/11/2012</i>	<i>3/14/2012</i>	<i>3/14/2012</i>	<i>8/7/2012</i>
<i>Parameter</i>	<i>Units</i>	<i>ODH Sub-Slab Screening Levels (Non-residential)</i>	<i>ODH Sub-Slab Action Levels (Non-residential)</i>	<i>a</i>	<i>b</i>
Volatile Organic Compounds					
1,1,1-Trichloroethane	ppb	NC	NC	2.6 U	6.2 U
1,1,2,2-Tetrachloroethane	ppb	NC	NC	3.0 U	13 U
1,1,2-Trichloroethane	ppb	NC	NC	1.4 U	11 U
1,1-Dichloroethane	ppb	160	1600	2.6 U	5.4 U
1,1-Dichloroethene	ppb	NC	NC	2.3 U	6.7 U
1,2,4-Trichlorobenzene	ppb	NC	NC	3.8 U	20 U
1,2,4-Trimethylbenzene	ppb	NC	NC	18	22 J
1,2-Dibromoethane (Ethylene dibromide)	ppb	NC	NC	1.4 U	9.2 U
1,2-Dichlorobenzene	ppb	NC	NC	3.6 U	15 U
1,2-Dichloroethane	ppb	NC	NC	2.3 U	9.8 U
1,2-Dichloroethene (total)	ppb	NC	NC	1.1 U	-
1,2-Dichloropropane	ppb	NC	NC	1.1 U	11 U
1,2-Dichlorotetrafluoroethane (CFC 114)	ppb	NC	NC	2.4 U	6.7 U
1,3,5-Trimethylbenzene	ppb	NC	NC	5.5 J	14 U
1,3-Butadiene	ppb	NC	NC	0.75 U	13 U
1,3-Dichlorobenzene	ppb	NC	NC	3.3 U	14 U
1,4-Dichlorobenzene	ppb	NC	NC	3.3 U	13 UJ
1,4-Dioxane	ppb	NC	NC	6.6 U	17 U
2,2,4-Trimethylpentane	ppb	NC	NC	54	21 J
2-Butanone (Methyl ethyl ketone) (MEK)	ppb	NC	NC	65	64 J
2-Chlorotoluene	ppb	NC	NC	3.5 U	13 U
2-Hexanone	ppb	NC	NC	2.9 U	12 U
2-Phenylbutane (sec-Butylbenzene)	ppb	NC	NC	3.5 U	13 U
4-Ethyl toluene	ppb	NC	NC	6.6 J	14 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ppb	NC	NC	7.1 J	43 J
Acetone	ppb	NC	NC	1900	1300
Allyl chloride	ppb	NC	NC	1.4 U	10 U
Benzene	ppb	20	200	1.4 U	12 U
Benzyl chloride	ppb	NC	NC	3.5 UJ	16 U
Bromodichloromethane	ppb	NC	NC	2.1 U	9.2 U
Bromoform	ppb	NC	NC	1.4 U	10 U
Bromomethane (Methyl bromide)	ppb	NC	NC	0.90 U	6.7 U
Butane	ppb	NC	NC	590	270 J
Carbon disulfide	ppb	NC	NC	5.0 U	6.4 U
Carbon tetrachloride	ppb	NC	NC	2.5 U	7.9 U
Chlorobenzene	ppb	NC	NC	1.5 U	10 U
Chlorodifluoromethane	ppb	NC	NC	2.6 U	17 J
Chloroethane	ppb	NC	NC	1.2 U	7.3 U
Chloroform (Trichloromethane)	ppb	800	8000	2.3 U	7.9 U
Chloromethane (Methyl chloride)	ppb	NC	NC	0.98 U	33 U

TABLE 1

**SUMMARY OF SUB-SLAB SOIL VAPOR ANALYTICAL RESULTS
BUILDINGS 8 AND 9 - 1951 DRYDEN ROAD
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO**

<i>Sample Location:</i>		<i>Building 9, Probe B</i>	<i>Building 9, Probe B</i>	<i>Building 9, Probe B</i>	<i>Building 9, Probe B</i>
<i>Sample Location:</i>		<i>1951 Dryden Road</i>	<i>1951 Dryden Road</i>	<i>1951 Dryden Road</i>	<i>1951 Dryden Road</i>
<i>Sample Date:</i>		<i>1/11/2012</i>	<i>3/14/2012</i>	<i>3/14/2012</i>	<i>8/7/2012</i>
<i>Parameter</i>	<i>Units</i>	<i>ODH Sub-Slab Screening Levels (Non-residential)</i>	<i>ODH Sub-Slab Action Levels (Non-residential)</i>	<i>Building 9, Probe B</i>	<i>Building 9, Probe B</i>
		<i>a</i>	<i>b</i>		
cis-1,2-Dichloroethene	ppb	370	3700	1.1 U	12 U
cis-1,3-Dichloropropene	ppb	NC	NC	1.2 U	15 U
Cyclohexane	ppb	NC	NC	3.3 J	8.3 U
Cymene (p-Isopropyltoluene)	ppb	NC	NC	3.6 U	12 U
Dibromochloromethane	ppb	NC	NC	1.6 U	8.7 U
Dichlorodifluoromethane (CFC-12)	ppb	NC	NC	2.9 U	45
Ethylbenzene	ppb	2500	25000	22	19 J
Hexachlorobutadiene	ppb	NC	NC	4.9 U	16 U
Hexane	ppb	NC	NC	2.0 U	6.7 U
Isopropyl alcohol	ppb	NC	NC	2.8 U	14 J
Isopropyl benzene	ppb	NC	NC	2.3 U	12 U
m&p-Xylenes	ppb	2000	20000	92	76
Methyl methacrylate	ppb	NC	NC	0.98 U	16 U
Methyl tert butyl ether (MTBE)	ppb	NC	NC	1.2 U	35 U
Methylene chloride	ppb	NC	NC	100	170
Naphthalene	ppb	29	NC	6.5 UJ	19 U
N-Butylbenzene	ppb	NC	NC	4.1 U	9.6 U
N-Decane	ppb	NC	NC	-	-
N-Dodecane	ppb	NC	NC	-	-
N-Heptane	ppb	NC	NC	87	110
Nonane	ppb	NC	NC	-	-
N-Propylbenzene	ppb	NC	NC	3.8 U	12 U
N-Undecane	ppb	NC	NC	-	-
Octane	ppb	NC	NC	-	-
o-Xylene	ppb	2000	20000	27	26 J
Pentane	ppb	NC	NC	-	-
Styrene	ppb	NC	NC	12 J	46
tert-Butyl alcohol	ppb	NC	NC	5.3 U	7.9 U
tert-Butylbenzene	ppb	NC	NC	3.5 U	14 U
Tetrachloroethene	ppb	250	2500	0.83 U	8.3 U
Tetrahydrofuran	ppb	NC	NC	1.4 U	13 U
Toluene	ppb	NC	NC	1700	2200
trans-1,2-Dichloroethene	ppb	NC	NC	2.4 U	10 U
trans-1,3-Dichloropropene	ppb	NC	NC	1.5 U	10 U
Trichloroethene	ppb	20	200	2.3 U	7.5 U
Trichlorofluoromethane (CFC-11)	ppb	NC	NC	2.6 U	5.0 U
Trifluorotrichloroethane (Freon 113)	ppb	NC	NC	0.75 U	6.4 U
Vinyl bromide (Bromoethene)	ppb	NC	NC	1.4 U	7.3 U
Vinyl chloride	ppb	20	200	2.2 U	15 U
Xylenes (total)	ppb	NC	NC	120	-

TABLE 1

**SUMMARY OF SUB-SLAB SOIL VAPOR ANALYTICAL RESULTS
BUILDINGS 8 AND 9 - 1951 DRYDEN ROAD
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO**

<i>Sample Location:</i>		<i>Building 9, Probe B</i>	<i>Building 9, Probe B</i>	<i>Building 9, Probe B</i>	<i>Building 9, Probe B</i>
<i>Sample Location:</i>		<i>1951 Dryden Road</i>	<i>1951 Dryden Road</i>	<i>1951 Dryden Road</i>	<i>1951 Dryden Road</i>
<i>Sample Date:</i>		<i>1/11/2012</i>	<i>3/14/2012</i>	<i>3/14/2012</i>	<i>8/7/2012</i>
<i>Parameter</i>	<i>Units</i>	<i>ODH Sub-Slab Screening Levels (Non-residential)</i>	<i>ODH Sub-Slab Action Levels (Non-residential)</i>		
		<i>a</i>	<i>b</i>		
<i>Tentatively Identified Compounds (TIC) Volatiles</i>					
2-Methylbutane A	ppb	NC	NC	-	-
Acetaldehyde A	ppb	110	NC	-	-
Propane A	ppb	NC	NC	-	-
Unknown A	ppb	NC	NC	-	-
Unknown B	ppb	NC	NC	-	-
<i>Gases</i>					
Methane	%	0.5	0.5	1.6 U^{ab}	0.17 U
<i>Field Parameter</i>					
Methane, field (unfiltered)	%	0.5	0.5	0.2 / 0.2	-
Methane, field (filtered)	%	0.5	0.5	-	0 / 0.1

Notes:

J - The chemical was detected by the laboratory, the listed value is an approximate concentration

JN or NJ - The listed value of the tentatively identified compound is an approximate concentration

U - The chemical was not detected in the sample at the detection limit shown.

UJ - The chemical was not detected in the sample at the approximate detection limit shown.

NC - No criterion

-- Not applicable.

[redacted] - Concentration was greater than applicable criteria.

TABLE 2

**SUMMARY OF INDOOR AIR ANALYTICAL RESULTS
BUILDINGS 8 AND 9 - 1951 DRYDEN ROAD
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO**

<i>Sample Location:</i>		<i>Building 8 Outdoor Air</i>	<i>Building 8 Outdoor Air</i>	<i>Building 8, IA_C</i>	<i>Building 8, IA_C</i>	<i>Building 8, IA_F</i>
<i>Sample Location:</i>		<i>1951 Dryden Road</i>	<i>1951 Dryden Road</i>	<i>1951 Dryden Road</i>	<i>1951 Dryden Road</i>	<i>1951 Dryden Road</i>
<i>Sample Date:</i>		<i>3/14/2012</i>	<i>8/7/2012</i>	<i>3/14/2012</i>	<i>8/7/2012</i>	<i>3/14/2012</i>
<i>Parameter</i>		<i>ODH Indoor Air Screening Levels (Non-residential)</i>	<i>ODH Indoor Air Action Levels (Non-residential)</i>			
		<i>a</i>	<i>b</i>			
Volatile Organic Compounds						
1,1,1-Trichloroethane	ppb	NC	NC	0.030 U	0.030 U	1.1 U
1,1,2,2-Tetrachloroethane	ppb	NC	NC	0.061 U	0.061 U	2.2 U
1,1,2-Trichloroethane	ppb	NC	NC	0.054 U	0.054 U	2.0 U
1,1-Dichloroethane	ppb	16	160	0.026 U	0.026 U	0.95 U
1,1-Dichloroethene	ppb	NC	NC	0.032 U	0.032 U	1.2 U
1,2,4-Trichlorobenzene	ppb	NC	NC	0.098 U	0.098 UJ	3.6 U
1,2,4-Trimethylbenzene	ppb	NC	NC	0.15 J	0.60	43
1,2-Dibromoethane (Ethylene dibromide)	ppb	NC	NC	0.044 U	0.044 U	1.6 U
1,2-Dichlorobenzene	ppb	NC	NC	0.070 U	0.070 U	2.6 U
1,2-Dichloroethane	ppb	NC	NC	0.047 U	0.047 U	1.7 U
1,2-Dichloroethene (total)	ppb	NC	NC	-	-	-
1,2-Dichloropropane	ppb	NC	NC	0.052 U	0.052 U	1.9 U
1,2-Dichlorotetrafluoroethane (CFC 114)	ppb	NC	NC	0.032 U	0.032 U	1.2 U
1,3,5-Trimethylbenzene	ppb	NC	NC	0.065 U	0.15 J	6.9 J
1,3-Butadiene	ppb	NC	NC	0.14 J	0.064 U	2.3 U
1,3-Dichlorobenzene	ppb	NC	NC	0.065 U	0.065 U	2.4 U
1,4-Dichlorobenzene	ppb	NC	NC	0.064 UJ	0.064 U	2.3 U
1,4-Dioxane	ppb	NC	NC	0.080 U	0.080 U	2.9 U
2,2,4-Trimethylpentane	ppb	NC	NC	0.18 J	0.16 J	8.2 J
2-Butanone (Methyl ethyl ketone) (MEK)	ppb	NC	NC	1.1	1.3	19 J
2-Chlorotoluene	ppb	NC	NC	0.063 U	0.063 U	2.3 U
2-Hexanone	ppb	NC	NC	0.058 U	0.058 U	2.1 U
2-Phenylbutane (sec-Butylbenzene)	ppb	NC	NC	0.064 U	0.064 U	2.3 U
4-Ethyl toluene	ppb	NC	NC	0.066 U	0.18 J	8.9 J
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ppb	NC	NC	0.045 U	18	6.9 J
Acetone	ppb	NC	NC	7.3	55	2700
Allyl chloride	ppb	NC	NC	0.048 U	0.048 U	1.8 U
Benzene	ppb	2	20	0.41	0.30	20 ^a
Benzyl chloride	ppb	NC	NC	0.078 U	0.078 U	2.9 U
Bromodichloromethane	ppb	NC	NC	0.044 U	0.044 U	1.6 U
Bromoform	ppb	NC	NC	0.048 U	0.048 U	1.8 U
Bromomethane (Methyl bromide)	ppb	NC	NC	0.032 U	0.032 U	1.2 U
Butane	ppb	NC	NC	5.4 J	1.3	190
Carbon disulfide	ppb	NC	NC	0.031 U	0.031 U	1.1 U
Carbon tetrachloride	ppb	NC	NC	0.092 J	0.073 J	1.4 UJ
Chlorobenzene	ppb	NC	NC	0.049 U	0.049 U	1.8 U
Chlorodifluoromethane	ppb	NC	NC	0.74 J	0.43	3.5 J

TABLE 2

**SUMMARY OF INDOOR AIR ANALYTICAL RESULTS
BUILDINGS 8 AND 9 - 1951 DRYDEN ROAD
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO**

<i>Sample Location:</i>	<i>Building 8 Outdoor Air</i>			<i>Building 8 Outdoor Air</i>			<i>Building 8, IA_C</i>	<i>Building 8, IA_C</i>	<i>Building 8, IA_F</i>
<i>Sample Location:</i>	<i>1951 Dryden Road</i>			<i>1951 Dryden Road</i>			<i>1951 Dryden Road</i>	<i>1951 Dryden Road</i>	<i>1951 Dryden Road</i>
<i>Sample Date:</i>	<i>3/14/2012</i>			<i>8/7/2012</i>			<i>3/14/2012</i>	<i>8/7/2012</i>	<i>3/14/2012</i>
<i>Parameter</i>	<i>ODH Indoor Air Units</i>	<i>ODH Indoor Air Screening Levels (Non-residential)</i>	<i>ODH Indoor Air Action Levels (Non-residential)</i>	<i>a</i>	<i>b</i>				
Chloroethane	ppb	NC	NC	0.035 U	0.035 U	1.3 U	0.035 U	1.3 U	
Chloroform (Trichloromethane)	ppb	80	800	0.17 J	0.042 J	1.4 U	0.038 U	1.4 U	
Chloromethane (Methyl chloride)	ppb	NC	NC	1.1	0.61	5.9 U	0.58	6.1 U	
cis-1,2-Dichloroethene	ppb	37	370	0.060 U	0.060 U	2.2 U	0.060 U	2.3 U	
cis-1,3-Dichloropropene	ppb	NC	NC	0.074 U	0.074 U	2.7 U	0.074 U	2.8 U	
Cyclohexane	ppb	NC	NC	0.040 U	0.29 J	26	0.62	22	
Cymene (p-Isopropyltoluene)	ppb	NC	NC	0.057 U	0.057 U	2.1 U	0.057 U	2.2 U	
Dibromochloromethane	ppb	NC	NC	0.042 U	0.042 U	1.5 U	0.042 U	1.6 U	
Dichlorodifluoromethane (CFC-12)	ppb	NC	NC	0.60	0.47	2.5 U	0.43	2.6 U	
Ethylbenzene	ppb	250	2500	0.16 J	1.9	34	1.1	27	
Hexachlorobutadiene	ppb	NC	NC	0.078 U	0.078 UJ	2.9 U	0.078 U	3.0 U	
Hexane	ppb	NC	NC	0.52	0.43 J	46	1.1	32	
Isopropyl alcohol	ppb	NC	NC	2.1	1.3 J	270	1.4 J	230	
Isopropyl benzene	ppb	NC	NC	0.060 U	0.060 U	2.6 J	0.075 J	2.3 U	
m&p-Xylenes	ppb	200	2000	0.52	8.2	140	3.7	110	
Methyl methacrylate	ppb	NC	NC	0.079 U	0.079 U	2.9 U	0.079 U	3.0 U	
Methyl tert butyl ether (MTBE)	ppb	NC	NC	0.17 U	0.17 U	6.2 U	0.17 U	6.4 U	
Methylene chloride	ppb	NC	NC	0.43 J	0.55	1.6 U	0.82	1.7 U	
Naphthalene	ppb	2.9	NC	0.090 U	0.090 UJ	3.3 U^a	0.090 U	3.4 U^a	
N-Butylbenzene	ppb	NC	NC	0.046 U	0.046 U	2.3 J	0.046 U	1.7 U	
N-Decane	ppb	NC	NC	-	0.99 J	-	16	-	
N-Dodecane	ppb	NC	NC	-	0.14 J	-	0.088 J	-	
N-Heptane	ppb	NC	NC	0.46 J	0.25 J	260	0.90	240	
Nonane	ppb	NC	NC	-	0.65	-	24	-	
N-Propylbenzene	ppb	NC	NC	0.056 U	0.10 J	5.1 J	0.11 J	3.1 J	
N-Undecane	ppb	NC	NC	-	0.48 J	-	2.3	-	
Octane	ppb	NC	NC	-	0.090 J	-	1.5	-	
o-Xylene	ppb	200	2000	0.19 J	2.5	44	1.1	33	
Pentane	ppb	NC	NC	-	1.1	-	3.5	-	
Styrene	ppb	NC	NC	0.058 U	0.33	2.1 U	0.058 U	2.2 U	
tert-Butyl alcohol	ppb	NC	NC	0.11 J	0.063 J	1.4 U	0.045 J	1.4 U	
tert-Butylbenzene	ppb	NC	NC	0.066 U	0.066 U	2.4 U	0.066 U	2.5 U	
Tetrachloroethene	ppb	25	250	0.18 J	0.040 U	1.5 U	0.062 J	1.5 U	
Tetrahydrofuran	ppb	NC	NC	0.063 U	0.063 U	2.3 U	0.38 J	2.4 U	
Toluene	ppb	NC	NC	1.3	2.1	130	2.7	91	
trans-1,2-Dichloroethene	ppb	NC	NC	0.050 U	0.050 U	1.8 U	0.050 U	1.9 U	
trans-1,3-Dichloropropene	ppb	NC	NC	0.048 U	0.048 U	1.8 U	0.048 U	1.8 U	
Trichloroethene	ppb	2	20	0.052 J	0.072 J	1.5 J	0.12 J	1.4 U	

TABLE 2

**SUMMARY OF INDOOR AIR ANALYTICAL RESULTS
BUILDINGS 8 AND 9 - 1951 DRYDEN ROAD
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO**

<i>Sample Location:</i>	<i>Building 8 Outdoor Air</i>			<i>Building 8 Outdoor Air</i>			<i>Building 8, IA_C</i>	<i>Building 8, IA_C</i>	<i>Building 8, IA_F</i>
<i>Sample Location:</i>	1951 Dryden Road			1951 Dryden Road			1951 Dryden Road	1951 Dryden Road	1951 Dryden Road
<i>Sample Date:</i>	3/14/2012			8/7/2012			3/14/2012	8/7/2012	3/14/2012
<i>Parameter</i>	<i>ODH Indoor Air Units</i>	<i>ODH Indoor Air Screening Levels (Non-residential)</i>	<i>ODH Indoor Air Action Levels (Non-residential)</i>	<i>a</i>	<i>b</i>				
Trichlorofluoromethane (CFC-11)	ppb	NC	NC	0.33	0.29	0.88 U	0.23	0.91 U	
Trifluorotrichloroethane (Freon 113)	ppb	NC	NC	0.082 J	0.077 J	1.1 U	0.069 J	1.2 U	
Vinyl bromide (Bromoethene)	ppb	NC	NC	0.035 U	0.035 U	1.3 U	0.035 U	1.3 U	
Vinyl chloride	ppb	2	20	0.071 U	0.071 U	2.6 U ^a	0.071 U	2.7 U ^a	
Xylenes (total)	ppb	NC	NC	-	-	-	-	-	
<i>Tentatively Identified Compounds (TIC) Volatiles</i>									
(1alpha,2beta,4beta)-1,2,4-Trimethyl-cyclohexane A	ppb	NC	NC	-	-	-	7.3 NJ	-	
1,2,3-Trimethylcyclohexane (1alpha,2beta,3alpha) A	ppb	NC	NC	-	-	-	7.9 NJ	-	
1,2,4-Trimethylcyclohexane A	ppb	NC	NC	-	-	-	7.3 NJ	-	
1-Ethyl-2-methyl-cyclohexane A	ppb	NC	NC	-	-	-	-	-	
1-Ethyl-3-methylcyclohexane (total) A	ppb	NC	NC	-	-	-	-	-	
1-Ethyl-4-methyl cyclohexane A	ppb	NC	NC	-	-	-	-	-	
1-Methyl-4-(1-methylethyl)-cyclohexane A	ppb	NC	NC	-	-	-	9.5 NJ	-	
2-Methylbutane A	ppb	NC	NC	-	-	-	-	-	
3-Methylpentane A	ppb	NC	NC	-	-	-	-	-	
4-Methylnonane A	ppb	NC	NC	-	-	-	16 NJ	-	
5-Methyldecane A	ppb	NC	NC	-	-	-	-	-	
Acetaldehyde A	ppb	11	NC	-	5.7 NJ	-	-	-	
Cyclohexane, 1-ethyl-2-methyl-, trans- A	ppb	NC	NC	-	-	-	24 NJ	-	
Cyclohexane, butyl- A	ppb	NC	NC	-	-	-	18 NJ	-	
Decane, 2-methyl A	ppb	NC	NC	-	-	-	-	-	
Decane, 4-methyl- A	ppb	NC	NC	-	-	-	-	-	
Ethanol A	ppb	NC	NC	-	-	-	-	-	
Heptane, 3-ethyl-2-methyl- A	ppb	NC	NC	-	-	-	16 NJ	-	
Methanol A	ppb	NC	NC	-	-	-	-	-	
Methyl propyl ketone A	ppb	NC	NC	-	4.6 NJ	-	-	-	
Naphthalene, decahydro-, trans- A	ppb	NC	NC	-	-	-	10 NJ	-	
Octahydro-5-methyl-1H-indene A	ppb	NC	NC	-	-	-	8.0 NJ	-	
Propane A	ppb	NC	NC	-	U	-	91 NJ	-	
Propylcyclohexane A	ppb	NC	NC	-	-	-	12 NJ	-	
Propylcyclohexane B	ppb	NC	NC	-	-	-	31 NJ	-	
Unknown A	ppb	NC	NC	-	18 NJ	-	11 NJ	-	
Unknown B	ppb	NC	NC	-	-	-	18 NJ	-	
Unknown C	ppb	NC	NC	-	-	-	9.5 NJ	-	
Unknown D	ppb	NC	NC	-	-	-	7.7 NJ	-	
Unknown E	ppb	NC	NC	-	-	-	11 NJ	-	
Unknown F	ppb	NC	NC	-	-	-	8.0 NJ	-	

TABLE 2

**SUMMARY OF INDOOR AIR ANALYTICAL RESULTS
BUILDINGS 8 AND 9 - 1951 DRYDEN ROAD
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO**

<i>Sample Location:</i>		<i>Building 8 Outdoor Air</i>	<i>Building 8 Outdoor Air</i>	<i>Building 8, IA_C</i>	<i>Building 8, IA_C</i>	<i>Building 8, IA_F</i>
<i>Sample Location:</i>		<i>1951 Dryden Road</i>	<i>1951 Dryden Road</i>	<i>1951 Dryden Road</i>	<i>1951 Dryden Road</i>	<i>1951 Dryden Road</i>
<i>Sample Date:</i>		<i>3/14/2012</i>	<i>8/7/2012</i>	<i>3/14/2012</i>	<i>8/7/2012</i>	<i>3/14/2012</i>
<i>Parameter</i>	<i>ODH Indoor Air Units</i>	<i>ODH Indoor Air Screening Levels (Non-residential)</i>	<i>ODH Indoor Air Action Levels (Non-residential)</i>			
		<i>a</i>	<i>b</i>			
Unknown G	ppb	NC	NC	-	-	10 NJ
Unknown H	ppb	NC	NC	-	-	7.1 NJ
Unknown I	ppb	NC	NC	-	-	19 NJ
Unknown J	ppb	NC	NC	-	-	30 NJ
Unknown K	ppb	NC	NC	-	-	13 NJ
Unknown L	ppb	NC	NC	-	-	25 NJ
Unknown M	ppb	NC	NC	-	-	12 NJ
Unknown N	ppb	NC	NC	-	-	20 NJ
Unknown O	ppb	NC	NC	-	-	7.8 NJ
Unknown P	ppb	NC	NC	-	-	12 NJ
<i>Gases</i>						
Methane	%	0.05	0.05	-	0.22 U^{ab}	0.19 U^{ab}
<i>Field Parameter</i>						
Methane, field (unfiltered)	%	0.05	0.05	-	-	-
Methane, field (filtered)	%	0.05	0.05	0.0 /0	0 /0	0.0 /0

Notes:

J - The chemical was detected by the laboratory, the listed value is an approximate concentration

JN or NJ - The listed value of the tentatively identified compound is an approximate concentration

U - The chemical was not detected in the sample at the detection limit shown.

UJ - The chemical was not detected in the sample at the approximate detection limit shown.

NC - No criterion

-- Not applicable.

[redacted] - Concentration was greater than applicable criteria.

TABLE 2

**SUMMARY OF INDOOR AIR ANALYTICAL RESULTS
BUILDINGS 8 AND 9 - 1951 DRYDEN ROAD
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO**

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<i>Sample Location:</i>		<i>Building 8, IA_F</i>	<i>Building 8, IA_F</i>	<i>Building 8, IA_Office</i>	<i>Building 8, IA_Office</i>	<i>Building 9 Outdoor Air</i>
<i>Sample Location:</i>		<i>1951 Dryden Road</i>	<i>1951 Dryden Road</i>	<i>1951 Dryden Road</i>	<i>1951 Dryden Road</i>	<i>1951 Dryden Road</i>
<i>Sample Date:</i>		<i>8/7/2012</i>	<i>8/7/2012</i>	<i>3/14/2012</i>	<i>8/7/2012</i>	<i>3/14/2012</i>
<i>Parameter</i>		<i>ODH Indoor Air Screening Levels (Non-residential)</i>	<i>ODH Indoor Air Action Levels (Non-residential)</i>			
		<i>a</i>	<i>b</i>			
Volatile Organic Compounds						
1,1,1-Trichloroethane	ppb	NC	NC	0.030 U	0.030 U	0.030 U
1,1,2,2-Tetrachloroethane	ppb	NC	NC	0.061 U	0.061 U	0.061 U
1,1,2-Trichloroethane	ppb	NC	NC	0.054 U	0.054 U	0.054 U
1,1-Dichloroethane	ppb	16	160	0.026 U	0.026 U	0.026 U
1,1-Dichloroethene	ppb	NC	NC	0.032 U	0.032 U	0.032 U
1,2,4-Trichlorobenzene	ppb	NC	NC	0.098 UJ	0.098 UJ	0.098 U
1,2,4-Trimethylbenzene	ppb	NC	NC	0.71 J	1.5 J	0.81
1,2-Dibromoethane (Ethylene dibromide)	ppb	NC	NC	0.044 U	0.044 U	0.044 U
1,2-Dichlorobenzene	ppb	NC	NC	0.070 U	0.12 J	0.070 U
1,2-Dichloroethane	ppb	NC	NC	0.047 U	0.047 U	0.047 U
1,2-Dichloroethene (total)	ppb	NC	NC	-	-	-
1,2-Dichloropropane	ppb	NC	NC	0.052 U	0.052 U	0.052 U
1,2-Dichlortetrafluoroethane (CFC 114)	ppb	NC	NC	0.032 U	0.032 U	0.032 U
1,3,5-Trimethylbenzene	ppb	NC	NC	0.23	0.36	0.22
1,3-Butadiene	ppb	NC	NC	0.064 U	0.064 U	0.064 U
1,3-Dichlorobenzene	ppb	NC	NC	0.065 U	0.065 U	0.065 U
1,4-Dichlorobenzene	ppb	NC	NC	0.064 U	0.10 J	0.064 U
1,4-Dioxane	ppb	NC	NC	0.080 U	0.080 U	0.080 U
2,2,4-Trimethylpentane	ppb	NC	NC	0.76	0.62	0.28 J
2-Butanone (Methyl ethyl ketone) (MEK)	ppb	NC	NC	15	10	4.8
2-Chlorotoluene	ppb	NC	NC	0.063 U	0.063 U	0.063 U
2-Hexanone	ppb	NC	NC	0.084 J	0.11 J	0.058 U
2-Phenylbutane (sec-Butylbenzene)	ppb	NC	NC	0.064 U	0.064 U	0.064 U
4-Ethyl toluene	ppb	NC	NC	0.44	0.52	0.32 J
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ppb	NC	NC	1.7	1.5	0.80
Acetone	ppb	NC	NC	25	32	15 J
Allyl chloride	ppb	NC	NC	0.048 U	0.048 U	0.048 U
Benzene	ppb	2	20	0.99	0.79	0.41
Benzyl chloride	ppb	NC	NC	0.078 U	0.078 U	0.078 U
Bromodichloromethane	ppb	NC	NC	0.044 U	0.044 U	0.044 U
Bromoform	ppb	NC	NC	0.048 U	0.048 U	0.048 U
Bromomethane (Methyl bromide)	ppb	NC	NC	0.032 U	0.032 U	0.032 U
Butane	ppb	NC	NC	12	9.5	3.8
Carbon disulfide	ppb	NC	NC	0.16 J	0.046 J	0.031 U
Carbon tetrachloride	ppb	NC	NC	0.10 J	0.085 J	0.064 J
Chlorobenzene	ppb	NC	NC	0.049 U	0.049 U	0.049 U
Chlorodifluoromethane	ppb	NC	NC	0.037 U	0.60	0.41

26 J^{ab}

TABLE 2

**SUMMARY OF INDOOR AIR ANALYTICAL RESULTS
BUILDINGS 8 AND 9 - 1951 DRYDEN ROAD
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO**

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Sample Location:**Sample Location:****Sample Date:**

Parameter	Units	ODH Indoor Air Screening Levels (Non-residential)		ODH Indoor Air Action Levels (Non-residential)		Building 8, IA_F 1951 Dryden Road 8/7/2012	Building 8, IA_F 1951 Dryden Road 8/7/2012	Building 8, IA_Office 1951 Dryden Road 3/14/2012	Building 8, IA_Office 1951 Dryden Road 3/14/2012	Building 9 Outdoor Air 1951 Dryden Road 3/14/2012
				a	b					
Chloroethane	ppb	NC	NC	0.035 U	0.035 U	8.3 U		0.035 U		0.035 U
Chloroform (Trichloromethane)	ppb	80	800	0.091 J	0.067 J	9.0 U		0.043 J		0.17 J
Chloromethane (Methyl chloride)	ppb	NC	NC	0.75	0.85	38 U		0.52		0.71
cis-1,2-Dichloroethene	ppb	37	370	0.060 U	0.25	14 U		0.060 U		0.060 U
cis-1,3-Dichloropropene	ppb	NC	NC	0.074 U	0.074 U	17 U		0.074 U		0.074 U
Cyclohexane	ppb	NC	NC	0.91	0.68	57 J		0.37 J		0.040 U
Cymene (p-Isopropyltoluene)	ppb	NC	NC	0.057 U	0.058 J	13 U		0.057 U		0.057 U
Dibromochloromethane	ppb	NC	NC	0.042 U	0.042 U	9.9 U		0.042 U		0.042 U
Dichlorodifluoromethane (CFC-12)	ppb	NC	NC	0.73	0.60	16 U		0.80		0.50
Ethylbenzene	ppb	250	2500	9.5	7.6	22 J		3.8		0.14 J
Hexachlorobutadiene	ppb	NC	NC	0.078 UJ	0.078 UJ	18 U		0.078 U		0.078 U
Hexane	ppb	NC	NC	2.8	2.8	69 J		0.98		0.32 J
Isopropyl alcohol	ppb	NC	NC	4.9	2.7	370 J		2.1		1.2 J
Isopropyl benzene	ppb	NC	NC	0.17 J	0.14 J	14 U		0.087 J		0.060 U
m&p-Xylenes	ppb	200	2000	36	32	89		15		0.48
Methyl methacrylate	ppb	NC	NC	0.14 J	0.11 J	19 U		0.083 J		0.079 U
Methyl tert butyl ether (MTBE)	ppb	NC	NC	0.17 U	0.17 U	40 U		0.17 U		0.17 U
Methylene chloride	ppb	NC	NC	0.75 J	2.7 J	11 U		0.91		0.38 J
Naphthalene	ppb	2.9	NC	0.090 UJ	0.096 J	21 U ^a		0.090 U		0.090 U
N-Butylbenzene	ppb	NC	NC	0.046 U	0.10 J	11 U		0.070 J		0.046 U
N-Decane	ppb	NC	NC	6.9 J	14 J	-		9.8		-
N-Dodecane	ppb	NC	NC	0.078 U	0.46 J	-		0.72 J		-
N-Heptane	ppb	NC	NC	1.2	0.94	570		0.45 J		0.25 J
Nonane	ppb	NC	NC	11	11	-		7.3		-
N-Propylbenzene	ppb	NC	NC	0.28 J	0.29 J	13 U		0.17 J		0.056 U
N-Undecane	ppb	NC	NC	1.0 J	4.2 J	-		3.8		-
Octane	ppb	NC	NC	1.7	1.4	-		0.74		-
o-Xylene	ppb	200	2000	8.5	8.4	30 J		4.3		0.16 J
Pentane	ppb	NC	NC	11	9.3	-		3.6		-
Styrene	ppb	NC	NC	0.61	0.83	14 U		0.55		0.058 U
tert-Butyl alcohol	ppb	NC	NC	0.24 J	0.53 J	9.0 U		0.15 J		0.10 J
tert-Butylbenzene	ppb	NC	NC	0.066 U	0.066 U	16 U		0.091 J		0.066 U
Tetrachloroethene	ppb	25	250	0.13 J	0.076 J	9.5 U		0.040 U		0.23
Tetrahydrofuran	ppb	NC	NC	0.11 J	0.093 J	15 U		0.29 J		0.063 U
Toluene	ppb	NC	NC	10	8.7	110		4.1		1.7
trans-1,2-Dichloroethene	ppb	NC	NC	0.12 J	0.089 J	12 U		0.050 U		0.050 U
trans-1,3-Dichloropropene	ppb	NC	NC	0.048 U	0.048 U	11 U		0.048 U		0.048 U
Trichloroethene	ppb	2	20	0.96	0.89	8.5 U ^a		0.29		0.50

TABLE 2

**SUMMARY OF INDOOR AIR ANALYTICAL RESULTS
BUILDINGS 8 AND 9 - 1951 DRYDEN ROAD
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO**

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<i>Sample Location:</i>		<i>Building 8, IA_F</i>	<i>Building 8, IA_F</i>	<i>Building 8, IA_Office</i>	<i>Building 8, IA_Office</i>	<i>Building 9 Outdoor Air</i>
<i>Sample Location:</i>		<i>1951 Dryden Road</i>	<i>1951 Dryden Road</i>	<i>1951 Dryden Road</i>	<i>1951 Dryden Road</i>	<i>1951 Dryden Road</i>
<i>Sample Date:</i>		<i>8/7/2012</i>	<i>8/7/2012</i>	<i>3/14/2012</i>	<i>8/7/2012</i>	<i>3/14/2012</i>
<i>Parameter</i>		<i>ODH Indoor Air Screening Levels (Non-residential)</i>	<i>ODH Indoor Air Action Levels (Non-residential)</i>			
		<i>a</i>	<i>b</i>			
Trichlorofluoromethane (CFC-11)	ppb	NC	NC	0.37	0.56	0.35
Trifluorotrichloroethane (Freon 113)	ppb	NC	NC	0.093 J	0.078 J	0.066 J
Vinyl bromide (Bromoethene)	ppb	NC	NC	0.035 U	0.035 U	0.035 U
Vinyl chloride	ppb	2	20	0.071 U	0.071 U	0.071 U
Xylenes (total)	ppb	NC	NC	-	-	-
<i>Tentatively Identified Compounds (TIC) Volatiles</i>						
(1alpha,2beta,4beta)-1,2,4-Trimethyl-cyclohexane A	ppb	NC	NC	-	-	-
1,2,3-Trimethylcyclohexane (1alpha,2beta,3alpha) A	ppb	NC	NC	-	-	-
1,2,4-Trimethylcyclohexane A	ppb	NC	NC	-	-	-
1-Ethyl-2-methyl-cyclohexane A	ppb	NC	NC	-	-	5.2 NJ
1-Ethyl-3-methylcyclohexane (total) A	ppb	NC	NC	-	-	3.8 NJ
1-Ethyl-4-methyl cyclohexane A	ppb	NC	NC	4.8 NJ	4.2 NJ	-
1-Methyl-4-(1-methylethyl)-cyclohexane A	ppb	NC	NC	-	-	-
2-Methylbutane A	ppb	NC	NC	22 NJ	17 NJ	13 NJ
3-Methylpentane A	ppb	NC	NC	3.4 NJ	2.7 NJ	-
4-Methylnonane A	ppb	NC	NC	2.6 NJ	3.8 NJ	5.1 NJ
5-Methyldecane A	ppb	NC	NC	-	-	2.9 NJ
Acetaldehyde A	ppb	11	NC	-	-	-
Cyclohexane, 1-ethyl-2-methyl-, trans- A	ppb	NC	NC	-	-	-
Cyclohexane, butyl- A	ppb	NC	NC	2.8 NJ	3.9 NJ	5.7 NJ
Decane, 2-methyl A	ppb	NC	NC	-	-	4.3 NJ
Decane, 4-methyl- A	ppb	NC	NC	2.7 NJ	4.6 NJ	-
Ethanol A	ppb	NC	NC	9.2 NJ	6.5 NJ	8.1 NJ
Heptane, 3-ethyl-2-methyl- A	ppb	NC	NC	-	-	-
Methanol A	ppb	NC	NC	14 NJ	8.8 NJ	7.3 NJ
Methyl propyl ketone A	ppb	NC	NC	-	-	-
Naphthalene, decahydro-, trans- A	ppb	NC	NC	-	-	3.5 NJ
Octahydro-5-methyl-1H-indene A	ppb	NC	NC	-	-	-
Propane A	ppb	NC	NC	U	29 NJ	37 NJ
Propylcyclohexane A	ppb	NC	NC	-	-	7.3 NJ
Propylcyclohexane B	ppb	NC	NC	-	-	-
Unknown A	ppb	NC	NC	5.9 NJ	5.0 NJ	5.9 NJ
Unknown B	ppb	NC	NC	6.7 NJ	6.9 NJ	3.6 NJ
Unknown C	ppb	NC	NC	2.6 NJ	2.9 NJ	2.6 NJ
Unknown D	ppb	NC	NC	4.2 NJ	5.2 NJ	6.4 NJ
Unknown E	ppb	NC	NC	4.1 NJ	-	7.3 NJ
Unknown F	ppb	NC	NC	-	-	3.4 NJ

TABLE 2

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**SUMMARY OF INDOOR AIR ANALYTICAL RESULTS
BUILDINGS 8 AND 9 - 1951 DRYDEN ROAD
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO**

<i>Sample Location:</i>		<i>Building 8, IA_F</i>	<i>Building 8, IA_F</i>	<i>Building 8, IA_Office</i>	<i>Building 8, IA_Office</i>	<i>Building 9 Outdoor Air</i>
<i>Sample Location:</i>		<i>1951 Dryden Road</i>	<i>1951 Dryden Road</i>	<i>1951 Dryden Road</i>	<i>1951 Dryden Road</i>	<i>1951 Dryden Road</i>
<i>Sample Date:</i>		<i>8/7/2012</i>	<i>8/7/2012</i>	<i>3/14/2012</i>	<i>8/7/2012</i>	<i>3/14/2012</i>
<i>Parameter</i>	<i>Units</i>	<i>ODH Indoor Air Screening Levels (Non-residential)</i>	<i>ODH Indoor Air Action Levels (Non-residential)</i>			
		<i>a</i>	<i>b</i>			
Unknown G	ppb	NC	NC	-	-	2.7 NJ
Unknown H	ppb	NC	NC	-	-	21 NJ
Unknown I	ppb	NC	NC	-	-	-
Unknown J	ppb	NC	NC	-	-	-
Unknown K	ppb	NC	NC	-	-	-
Unknown L	ppb	NC	NC	-	-	-
Unknown M	ppb	NC	NC	-	-	-
Unknown N	ppb	NC	NC	-	-	-
Unknown O	ppb	NC	NC	-	-	-
Unknown P	ppb	NC	NC	-	-	-
<i>Gases</i>						
Methane	%	0.05	0.05	0.21 U^{ab}	0.19 U^{ab}	0.22 U^{ab}
<i>Field Parameter</i>						
Methane, field (unfiltered)	%	0.05	0.05	-	-	-
Methane, field (filtered)	%	0.05	0.05	0 / 0	0 / 0	0 / 0

Notes:

J - The chemical was detected by the laboratory, the listed value is an approximate concentration

JN or NJ - The listed value of the tentatively identified compound is an approximate concentration

U - The chemical was not detected in the sample at the detection limit shown.

UJ - The chemical was not detected in the sample at the approximate detection limit shown.

NC - No criterion

-- Not applicable.

[Red Box] - Concentration was greater than applicable criteria.

TABLE 2

**SUMMARY OF INDOOR AIR ANALYTICAL RESULTS
BUILDINGS 8 AND 9 - 1951 DRYDEN ROAD
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO**

<i>Sample Location:</i>			<i>Building 9 Outdoor Air</i>	<i>Building 9, IA_A</i>	<i>Building 9, IA_B</i>
<i>Sample Location:</i>			<i>1951 Dryden Road</i>	<i>1951 Dryden Road</i>	<i>1951 Dryden Road</i>
<i>Sample Date:</i>			<i>3/27/2012</i>	<i>3/27/2012</i>	<i>3/14/2012</i>
<i>Parameter</i>	<i>Units</i>	<i>ODH Indoor Air Screening Levels (Non-residential)</i>	<i>ODH Indoor Air Action Levels (Non-residential)</i>		
		<i>a</i>	<i>b</i>		
Volatile Organic Compounds					
1,1,1-Trichloroethane	ppb	NC	NC	0.030 U	9.1 U
1,1,2,2-Tetrachloroethane	ppb	NC	NC	0.061 U	18 U
1,1,2-Trichloroethane	ppb	NC	NC	0.054 U	16 U
1,1-Dichloroethane	ppb	16	160	0.026 U	7.9 U
1,1-Dichloroethene	ppb	NC	NC	0.032 U	9.7 U
1,2,4-Trichlorobenzene	ppb	NC	NC	0.098 U	30 U
1,2,4-Trimethylbenzene	ppb	NC	NC	0.063 U	21 J
1,2-Dibromoethane (Ethylene dibromide)	ppb	NC	NC	0.044 U	13 U
1,2-Dichlorobenzene	ppb	NC	NC	0.070 U	21 U
1,2-Dichloroethane	ppb	NC	NC	0.047 U	14 U
1,2-Dichloroethene (total)	ppb	NC	NC	-	-
1,2-Dichloropropane	ppb	NC	NC	0.052 U	16 U
1,2-Dichlorotetrafluoroethane (CFC 114)	ppb	NC	NC	0.032 U	9.7 U
1,3,5-Trimethylbenzene	ppb	NC	NC	0.065 UJ	20 UJ
1,3-Butadiene	ppb	NC	NC	0.064 U	19 U
1,3-Dichlorobenzene	ppb	NC	NC	0.065 U	20 U
1,4-Dichlorobenzene	ppb	NC	NC	0.064 U	19 U
1,4-Dioxane	ppb	NC	NC	0.080 U	24 U
2,2,4-Trimethylpentane	ppb	NC	NC	0.039 U	12 U
2-Butanone (Methyl ethyl ketone) (MEK)	ppb	NC	NC	0.23 J	1200
2-Chlorotoluene	ppb	NC	NC	0.063 U	19 U
2-Hexanone	ppb	NC	NC	0.058 U	18 U
2-Phenylbutane (sec-Butylbenzene)	ppb	NC	NC	0.064 U	19 U
4-Ethyl toluene	ppb	NC	NC	0.066 U	20 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ppb	NC	NC	0.045 U	290
Acetone	ppb	NC	NC	1.4 U	2200
Allyl chloride	ppb	NC	NC	0.048 U	15 U
Benzene	ppb	2	20	0.15 J	17 U^a
Benzyl chloride	ppb	NC	NC	0.078 U	24 U
Bromodichloromethane	ppb	NC	NC	0.044 U	13 U
Bromoform	ppb	NC	NC	0.048 U	15 U
Bromomethane (Methyl bromide)	ppb	NC	NC	0.032 U	9.7 U
Butane	ppb	NC	NC	0.73	190
Carbon disulfide	ppb	NC	NC	0.031 U	9.4 U
Carbon tetrachloride	ppb	NC	NC	0.085 J	12 UJ
Chlorobenzene	ppb	NC	NC	0.049 U	15 U
Chlorodifluoromethane	ppb	NC	NC	0.24	24 J

TABLE 2

**SUMMARY OF INDOOR AIR ANALYTICAL RESULTS
BUILDINGS 8 AND 9 - 1951 DRYDEN ROAD
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO**

<i>Sample Location:</i>			<i>Building 9 Outdoor Air</i> <i>1951 Dryden Road</i> <i>3/27/2012</i>	<i>Building 9, IA_A</i> <i>1951 Dryden Road</i> <i>3/27/2012</i>	<i>Building 9, IA_B</i> <i>1951 Dryden Road</i> <i>3/14/2012</i>
<i>Parameter</i>	<i>Units</i>	<i>ODH Indoor Air Screening Levels (Non-residential)</i>	<i>ODH Indoor Air Action Levels (Non-residential)</i>		
		<i>a</i>	<i>b</i>		
Chloroethane	ppb	NC	NC	0.035 U	11 U
Chloroform (Trichloromethane)	ppb	80	800	0.038 U	12 U
Chloromethane (Methyl chloride)	ppb	NC	NC	0.57	49 U
cis-1,2-Dichloroethene	ppb	37	370	0.060 U	18 U
cis-1,3-Dichloropropene	ppb	NC	NC	0.074 U	22 U
Cyclohexane	ppb	NC	NC	0.040 U	14 J
Cymene (p-Isopropyltoluene)	ppb	NC	NC	0.057 U	17 U
Dibromochloromethane	ppb	NC	NC	0.042 U	13 U
Dichlorodifluoromethane (CFC-12)	ppb	NC	NC	0.43	21 U
Ethylbenzene	ppb	250	2500	0.068 U	270^a
Hexachlorobutadiene	ppb	NC	NC	0.078 U	24 U
Hexane	ppb	NC	NC	0.16 J	20 J
Isopropyl alcohol	ppb	NC	NC	0.17 J	32 J
Isopropyl benzene	ppb	NC	NC	0.060 U	18 U
m&p-Xylenes	ppb	200	2000	0.12 U	1200^a
Methyl methacrylate	ppb	NC	NC	0.079 U	24 U
Methyl tert butyl ether (MTBE)	ppb	NC	NC	0.17 U	52 U
Methylene chloride	ppb	NC	NC	0.045 U	260
Naphthalene	ppb	2.9	NC	0.090 U	27 U^a
N-Butylbenzene	ppb	NC	NC	0.046 UJ	76 U^a
N-Decane	ppb	NC	NC	-	-
N-Dodecane	ppb	NC	NC	-	-
N-Heptane	ppb	NC	NC	0.059 J	180
Nonane	ppb	NC	NC	-	-
N-Propylbenzene	ppb	NC	NC	0.056 U	17 U
N-Undecane	ppb	NC	NC	-	-
Octane	ppb	NC	NC	-	-
o-Xylene	ppb	200	2000	0.061 U	390^a
Pentane	ppb	NC	NC	-	-
Styrene	ppb	NC	NC	0.058 U	57 J
tert-Butyl alcohol	ppb	NC	NC	0.038 U	12 U
tert-Butylbenzene	ppb	NC	NC	0.066 U	20 U
Tetrachloroethene	ppb	25	250	0.040 U	12 U
Tetrahydrofuran	ppb	NC	NC	0.063 U	19 U
Toluene	ppb	NC	NC	0.32	5800
trans-1,2-Dichloroethene	ppb	NC	NC	0.050 U	15 U
trans-1,3-Dichloropropene	ppb	NC	NC	0.048 U	42 U
Trichloroethene	ppb	2	20	0.042 J	13 J^a

TABLE 2

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**SUMMARY OF INDOOR AIR ANALYTICAL RESULTS
BUILDINGS 8 AND 9 - 1951 DRYDEN ROAD
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO**

<i>Sample Location:</i>			<i>Building 9 Outdoor Air</i>	<i>Building 9, IA_A</i>	<i>Building 9, IA_B</i>
<i>Sample Location:</i>			<i>1951 Dryden Road</i>	<i>1951 Dryden Road</i>	<i>1951 Dryden Road</i>
<i>Sample Date:</i>			<i>3/27/2012</i>	<i>3/27/2012</i>	<i>3/14/2012</i>
<i>Parameter</i>	<i>Units</i>	<i>ODH Indoor Air Screening Levels (Non-residential)</i>	<i>ODH Indoor Air Action Levels (Non-residential)</i>		
		<i>a</i>	<i>b</i>		
Trichlorofluoromethane (CFC-11)	ppb	NC	NC	0.18 J	7.3 U
Trifluorotrichloroethane (Freon 113)	ppb	NC	NC	0.071 J	9.4 U
Vinyl bromide (Bromoethene)	ppb	NC	NC	0.035 U	11 U
Vinyl chloride	ppb	2	20	0.071 U	22 U^{ab}
Xylenes (total)	ppb	NC	NC	-	60 U^{ab}
<i>Tentatively Identified Compounds (TIC) Volatiles</i>					
(1alpha,2beta,4beta)-1,2,4-Trimethyl-cyclohexane A	ppb	NC	NC	-	-
1,2,3-Trimethylcyclohexane (1alpha,2beta,3alpha) A	ppb	NC	NC	-	-
1,2,4-Trimethylcyclohexane A	ppb	NC	NC	-	-
1-Ethyl-2-methyl-cyclohexane A	ppb	NC	NC	-	-
1-Ethyl-3-methylcyclohexane (total) A	ppb	NC	NC	-	-
1-Ethyl-4-methyl cyclohexane A	ppb	NC	NC	-	-
1-Methyl-4-(1-methylethyl)-cyclohexane A	ppb	NC	NC	-	-
2-Methylbutane A	ppb	NC	NC	-	-
3-Methylpentane A	ppb	NC	NC	-	-
4-Methylnonane A	ppb	NC	NC	-	-
5-Methyldecane A	ppb	NC	NC	-	-
Acetaldehyde A	ppb	11	NC	-	-
Cyclohexane, 1-ethyl-2-methyl-, trans- A	ppb	NC	NC	-	-
Cyclohexane, butyl- A	ppb	NC	NC	-	-
Decane, 2-methyl A	ppb	NC	NC	-	-
Decane, 4-methyl- A	ppb	NC	NC	-	-
Ethanol A	ppb	NC	NC	-	-
Heptane, 3-ethyl-2-methyl- A	ppb	NC	NC	-	-
Methanol A	ppb	NC	NC	-	-
Methyl propyl ketone A	ppb	NC	NC	-	-
Naphthalene, decahydro-, trans- A	ppb	NC	NC	-	-
Octahydro-5-methyl-1H-indene A	ppb	NC	NC	-	-
Propane A	ppb	NC	NC	-	-
Propylcyclohexane A	ppb	NC	NC	-	-
Propylcyclohexane B	ppb	NC	NC	-	-
Unknown A	ppb	NC	NC	-	-
Unknown B	ppb	NC	NC	-	-
Unknown C	ppb	NC	NC	-	-
Unknown D	ppb	NC	NC	-	-
Unknown E	ppb	NC	NC	-	-
Unknown F	ppb	NC	NC	-	-

TABLE 2

**SUMMARY OF INDOOR AIR ANALYTICAL RESULTS
BUILDINGS 8 AND 9 - 1951 DRYDEN ROAD
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO**

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<i>Sample Location:</i>			<i>Building 9 Outdoor Air</i>	<i>Building 9, IA_A</i>	<i>Building 9, IA_B</i>
<i>Sample Location:</i>			<i>1951 Dryden Road</i>	<i>1951 Dryden Road</i>	<i>1951 Dryden Road</i>
<i>Sample Date:</i>			<i>3/27/2012</i>	<i>3/27/2012</i>	<i>3/14/2012</i>
<i>Parameter</i>	<i>Units</i>	<i>ODH Indoor Air Screening Levels (Non-residential)</i>	<i>ODH Indoor Air Action Levels (Non-residential)</i>		
		<i>a</i>	<i>b</i>		
Unknown G	ppb	NC	NC	-	-
Unknown H	ppb	NC	NC	-	-
Unknown I	ppb	NC	NC	-	-
Unknown J	ppb	NC	NC	-	-
Unknown K	ppb	NC	NC	-	-
Unknown L	ppb	NC	NC	-	-
Unknown M	ppb	NC	NC	-	-
Unknown N	ppb	NC	NC	-	-
Unknown O	ppb	NC	NC	-	-
Unknown P	ppb	NC	NC	-	-
<i>Gases</i>					
Methane	%	0.05	0.05	-	-
<i>Field Parameter</i>					
Methane, field (unfiltered)	%	0.05	0.05	-	-
Methane, field (filtered)	%	0.05	0.05	0.0 / 0	0.0 / 0

Notes:

J - The chemical was detected by the laboratory, the listed value is an approximate concentration

JN or NJ - The listed value of the tentatively identified compound is an approximate concentration

U - The chemical was not detected in the sample at the detection limit shown.

UJ - The chemical was not detected in the sample at the approximate detection limit shown.

NC - No criterion

-- Not applicable.

[redacted] - Concentration was greater than applicable criteria.

TABLE 3

SUMMARY OF CRAWL SPACE ANALYTICAL RESULTS
BUILDING 11 - 1915 DRYDEN ROAD
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

<i>Sample Location:</i>		<i>Building 11 Crawl Space</i>	<i>Building 11 Outdoor Air</i>	<i>Building 11 Outdoor Air</i>	<i>Building 11 Outdoor Air</i>	<i>Building 11 Crawl Space</i>	<i>Building 11</i>
<i>Sample Location:</i>		<i>1915 Dryden Road</i>	<i>1915 Dryden Road</i>	<i>1915 Dryden Road</i>	<i>1915 Dryden Road</i>	<i>1915 Dryden Road</i>	<i>1915 Dryden Road</i>
<i>Sample Date:</i>		<i>1/11/2012</i>	<i>1/11/2012</i>	<i>1/11/2012</i>	<i>1/12/2012</i>	<i>1/12/2012</i>	<i>4/4/2012</i>
<i>Parameter</i>	<i>ODH Indoor Air Units</i>	<i>ODH Indoor Air Screening Levels (Non-residential)</i>	<i>ODH Indoor Air Action Levels (Non-residential)</i>	<i>a</i>	<i>b</i>		
<i>Volatile Organic Compounds</i>							
1,1,1-Trichloroethane	ppb	NC	NC	-	0.035 U	0.035 U	0.035 U
1,1,2,2-Tetrachloroethane	ppb	NC	NC	-	0.040 U	0.040 U	0.040 U
1,1,2-Trichloroethane	ppb	NC	NC	-	0.019 U	0.019 U	0.019 U
1,1-Dichloroethane	ppb	16	160	-	0.035 U	0.035 U	0.035 U
1,1-Dichloroethene	ppb	NC	NC	-	0.030 U	0.030 U	0.030 U
1,2,4-Trichlorobenzene	ppb	NC	NC	-	0.050 U	0.050 U	0.050 U
1,2,4-Trimethylbenzene	ppb	NC	NC	-	0.058 J	0.052 U	0.052 U
1,2-Dibromoethane (Ethylene dibromide)	ppb	NC	NC	-	0.018 U	0.018 U	0.018 U
1,2-Dichlorobenzene	ppb	NC	NC	-	0.048 U	0.048 U	0.048 U
1,2-Dichloroethane	ppb	NC	NC	-	0.031 U	0.031 U	0.031 U
1,2-Dichloroethene (total)	ppb	NC	NC	-	0.014 U	0.014 U	0.27
1,2-Dichloropropane	ppb	NC	NC	-	0.014 U	0.014 U	0.014 U
1,2-Dichlorotetrafluoroethane (CFC 114)	ppb	NC	NC	-	0.032 U	0.032 U	0.032 U
1,3,5-Trimethylbenzene	ppb	NC	NC	-	0.051 U	0.051 U	0.051 U
1,3-Butadiene	ppb	NC	NC	-	0.010 U	0.010 U	0.010 U
1,3-Dichlorobenzene	ppb	NC	NC	-	0.044 U	0.044 U	0.044 U
1,4-Dichlorobenzene	ppb	NC	NC	-	0.044 U	0.044 U	0.044 U
1,4-Dioxane	ppb	NC	NC	-	0.088 U	0.088 U	0.088 U
2,2,4-Trimethylpentane	ppb	NC	NC	-	0.051 J	0.036 U	0.036 U
2-Butanone (Methyl ethyl ketone) (MEK)	ppb	NC	NC	-	7.2 J	0.48 J	0.28 J
2-Chlorotoluene	ppb	NC	NC	-	0.047 U	0.047 U	0.047 U
2-Hexanone	ppb	NC	NC	-	0.039 U	0.039 U	0.039 U
2-Phenylbutane (sec-Butylbenzene)	ppb	NC	NC	-	0.047 U	0.047 U	0.047 U
4-Ethyl toluene	ppb	NC	NC	-	0.046 U	0.046 U	0.046 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ppb	NC	NC	-	0.026 U	0.026 U	0.026 U
Acetone	ppb	NC	NC	-	4.1 J	1.5 J	2.0 J
Allyl chloride	ppb	NC	NC	-	0.019 U	0.019 U	0.019 U
Benzene	ppb	2	20	-	0.27	0.27	0.20
Benzyl chloride	ppb	NC	NC	-	0.046 UJ	0.046 UJ	0.046 UJ
Bromodichloromethane	ppb	NC	NC	-	0.028 U	0.028 U	0.028 U
Bromoform	ppb	NC	NC	-	0.019 U	0.019 U	0.019 U
Bromomethane (Methyl bromide)	ppb	NC	NC	-	0.012 U	0.012 U	0.012 U
Butane	ppb	NC	NC	-	2.2	2.5	1.1
Carbon disulfide	ppb	NC	NC	-	0.36 J	0.066 U	0.11 J
Carbon tetrachloride	ppb	NC	NC	-	0.069 J	0.070 J	0.068 J
Chlorobenzene	ppb	NC	NC	-	0.020 U	0.020 U	0.032 J
Chlorodifluoromethane	ppb	NC	NC	-	0.34 J	0.39 J	0.25 J
Chloroethane	ppb	NC	NC	-	0.016 U	0.016 U	0.016 U

TABLE 3

SUMMARY OF CRAWL SPACE ANALYTICAL RESULTS
BUILDING 11 - 1915 DRYDEN ROAD
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:			Building 11 Crawl Space 1915 Dryden Road 1/11/2012	Building 11 Outdoor Air 1915 Dryden Road 1/11/2012	Building 11 Outdoor Air 1915 Dryden Road 1/11/2012	Building 11 Outdoor Air 1915 Dryden Road 1/12/2012	Building 11 Crawl Space 1915 Dryden Road 1/12/2012	Building 11 1915 Dryden Road 4/4/2012
Parameter	ODH Indoor Air Screening Levels (Non-residential)	ODH Indoor Air Action Levels (Non-residential)	a	b				
Chloroform (Trichloromethane)	ppb	80	800	-	0.031 U	0.031 U	0.031 U	-
Chloromethane (Methyl chloride)	ppb	NC	NC	-	0.74	0.71	0.48 J	0.18 J
cis-1,2-Dichloroethene	ppb	37	370	-	0.014 U	0.014 U	0.014 U	0.27
cis-1,3-Dichloropropene	ppb	NC	NC	-	0.016 U	0.016 U	0.016 U	-
Cyclohexane	ppb	NC	NC	-	0.039 U	0.041 J	0.040 J	0.093 J
Cymene (p-Isopropyltoluene)	ppb	NC	NC	-	0.048 U	0.048 U	0.048 U	-
Dibromochloromethane	ppb	NC	NC	-	0.021 U	0.021 U	0.021 U	-
Dichlorodifluoromethane (CFC-12)	ppb	NC	NC	-	0.61	0.65	0.47 J	0.50
Ethylbenzene	ppb	250	2500	-	0.061 J	0.062 J	0.036 J	0.26
Hexachlorobutadiene	ppb	NC	NC	-	0.065 U	0.065 U	0.065 U	-
Hexane	ppb	NC	NC	-	0.18 J	0.21	0.14 J	0.19 J
Isopropyl alcohol	ppb	NC	NC	-	0.037 U	0.037 U	0.85 J	0.71 J
Isopropyl benzene	ppb	NC	NC	-	0.031 U	0.031 U	0.031 U	0.066 J
m&p-Xylenes	ppb	200	2000	-	0.17 J	0.18 J	0.10 J	0.22 J
Methyl methacrylate	ppb	NC	NC	-	0.013 U	0.013 U	0.013 U	-
Methyl tert butyl ether (MTBE)	ppb	NC	NC	-	0.016 U	0.016 U	0.016 U	-
Methylene chloride	ppb	NC	NC	-	0.13 J	0.13 J	0.12 J	0.16 J
Naphthalene	ppb	2.9	NC	-	0.086 UJ	0.086 UJ	0.086 U	0.086 U
N-Butylbenzene	ppb	NC	NC	-	0.055 U	0.055 U	0.055 U	-
N-Decane	ppb	NC	NC	-	-	-	-	-
N-Dodecane	ppb	NC	NC	-	-	-	-	-
N-Heptane	ppb	NC	NC	-	0.099 J	0.11 J	0.057 J	0.13 J
Nonane	ppb	NC	NC	-	-	-	-	-
N-Propylbenzene	ppb	NC	NC	-	0.050 U	0.050 U	0.050 U	0.050 U
N-Undecane	ppb	NC	NC	-	-	-	-	-
Octane	ppb	NC	NC	-	-	-	-	-
o-Xylene	ppb	200	2000	-	0.067 J	0.060 J	0.038 J	0.11 J
Pentane	ppb	NC	NC	-	-	-	-	-
Styrene	ppb	NC	NC	-	0.030 U	0.030 U	0.030 U	-
tert-Butyl alcohol	ppb	NC	NC	-	0.071 U	0.071 U	0.071 U	-
tert-Butylbenzene	ppb	NC	NC	-	0.047 U	0.047 U	0.047 U	0.047 U
Tetrachloroethene	ppb	25	250	-	0.011 U	0.011 U	0.011 U	0.011 U
Tetrahydrofuran	ppb	NC	NC	-	6.3 J	0.72 J	0.018 U	0.018 U
Toluene	ppb	NC	NC	-	0.35	0.36	0.32	0.84
trans-1,2-Dichloroethene	ppb	NC	NC	-	0.032 U	0.032 U	0.032 U	-
trans-1,3-Dichloropropene	ppb	NC	NC	-	0.020 U	0.020 U	0.020 U	-
Trichloroethene	ppb	2	20	-	0.030 U	0.030 U	0.030 U	0.29
Trichlorofluoromethane (CFC-11)	ppb	NC	NC	-	0.22	0.24	0.21	0.22
Trifluorotrichloroethane (Freon 113)	ppb	NC	NC	-	0.072 J	0.071 J	0.070 J	0.078 J
Vinyl bromide (Bromoethene)	ppb	NC	NC	-	0.019 U	0.019 U	0.019 U	-
Vinyl chloride	ppb	2	20	-	0.029 U	0.029 U	0.029 U	0.029 U
Xylenes (total)	ppb	NC	NC	-	0.24	0.24	0.14 J	0.33

TABLE 3

SUMMARY OF CRAWL SPACE ANALYTICAL RESULTS
BUILDING 11 - 1915 DRYDEN ROAD
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:			Building 11 Crawl Space 1915 Dryden Road 1/11/2012	Building 11 Outdoor Air 1915 Dryden Road 1/11/2012	Building 11 Outdoor Air 1915 Dryden Road 1/11/2012	Building 11 Outdoor Air 1915 Dryden Road 1/12/2012	Building 11 Crawl Space 1915 Dryden Road 1/12/2012	Building 11 1915 Dryden Road 4/4/2012
Parameter	Units	ODH Indoor Air Screening Levels (Non-residential)	ODH Indoor Air Action Levels (Non-residential)	a	b			
Tentatively Identified Compounds (TIC) Volatiles								
2-Methylbutane A	ppb	NC	NC	-	-	-	-	-
Acetaldehyde A	ppb	11	NC	-	-	-	-	-
Propane A	ppb	NC	NC	-	-	-	-	-
Gases								
Methane	%	0.05	0.05	-	-	-	0.065 U^{ab}	0.10 U^{ab}
Field Parameter								
Methane, field (unfiltered)	%	0.05	0.05	0.0 / 0.0	0.0 / 0.0	0.0 / 0.0	0.0 / 0.0	0.0 / 0.0
Methane, field (filtered)	%	0.05	0.05	-	-	-	-	0.0
Notes:								
J - The chemical was detected by the laboratory, the listed value is an approximate concentration								
JN or NJ - The listed value of the tentatively identified compound is an approximate concentration								
U - The chemical was not detected in the sample at the detection limit shown.								
UJ - The chemical was not detected in the sample at the approximate detection limit shown.								
NC - No criterion								
-- Not applicable.								
 - Concentration was greater than applicable criteria.								

TABLE 3

SUMMARY OF CRAWL SPACE ANALYTICAL RESULTS
BUILDING 11 - 1915 DRYDEN ROAD
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

<i>Sample Location:</i>		<i>ODH Indoor Air Screening Levels</i>		<i>Building 11 Outdoor Air</i>	<i>Building 11 Outdoor Air</i>	<i>Building 11 Outdoor Air</i>	<i>Building 11 Crawl Space</i>
<i>Parameter</i>	<i>Units</i>	<i>(Non-residential)</i>	<i>(Non-residential)</i>	<i>1915 Dryden Road</i>	<i>1915 Dryden Road</i>	<i>1915 Dryden Road</i>	<i>1915 Dryden Road</i>
		<i>a</i>	<i>b</i>				
Volatile Organic Compounds							
1,1,1-Trichloroethane	ppb	NC	NC	0.030 U	0.030 U	-	0.030 U
1,1,2,2-Tetrachloroethane	ppb	NC	NC	0.061 U	0.061 U	-	0.061 U
1,1,2-Trichloroethane	ppb	NC	NC	0.054 U	0.054 U	-	0.054 U
1,1-Dichloroethane	ppb	16	160	0.026 U	0.026 U	-	0.026 U
1,1-Dichloroethene	ppb	NC	NC	0.032 U	0.032 U	-	0.032 U
1,2,4-Trichlorobenzene	ppb	NC	NC	0.098 U	0.098 UJ	-	0.098 U
1,2,4-Trimethylbenzene	ppb	NC	NC	0.78	0.076 J	-	0.063 U
1,2-Dibromoethane (Ethylene dibromide)	ppb	NC	NC	0.044 U	0.044 U	-	0.044 U
1,2-Dichlorobenzene	ppb	NC	NC	0.070 U	0.070 U	-	0.070 U
1,2-Dichloroethane	ppb	NC	NC	0.047 U	0.047 U	-	0.047 U
1,2-Dichloroethene (total)	ppb	NC	NC	-	-	-	-
1,2-Dichloropropane	ppb	NC	NC	0.052 U	0.052 U	-	0.052 U
1,2-Dichlorotetrafluoroethane (CFC 114)	ppb	NC	NC	0.032 U	0.032 U	-	0.032 U
1,3,5-Trimethylbenzene	ppb	NC	NC	0.12 J	0.065 U	-	0.065 U
1,3-Butadiene	ppb	NC	NC	0.064 U	0.064 U	-	0.064 U
1,3-Dichlorobenzene	ppb	NC	NC	0.065 U	0.065 U	-	0.065 U
1,4-Dichlorobenzene	ppb	NC	NC	0.064 U	0.064 U	-	0.064 U
1,4-Dioxane	ppb	NC	NC	0.080 U	0.080 U	-	0.080 U
2,2,4-Trimethylpentane	ppb	NC	NC	0.087 J	0.095 J	-	0.056 J
2-Butanone (Methyl ethyl ketone) (MEK)	ppb	NC	NC	0.65 J	0.72 J	-	0.37 J
2-Chlorotoluene	ppb	NC	NC	0.063 U	0.063 U	-	0.063 U
2-Hexanone	ppb	NC	NC	0.058 U	0.058 U	-	0.058 U
2-Phenylbutane (sec-Butylbenzene)	ppb	NC	NC	0.064 U	0.064 U	-	0.064 U
4-Ethyl toluene	ppb	NC	NC	0.14 J	0.066 U	-	0.066 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ppb	NC	NC	0.10 J	0.086 J	-	0.045 U
Acetone	ppb	NC	NC	5.8 J	6.5	-	3.0 J
Allyl chloride	ppb	NC	NC	0.048 U	0.048 U	-	0.048 U
Benzene	ppb	2	20	0.24	0.24	-	0.18 J
Benzyl chloride	ppb	NC	NC	0.078 U	0.078 U	-	0.078 U
Bromodichloromethane	ppb	NC	NC	0.044 U	0.044 U	-	0.044 U
Bromoform	ppb	NC	NC	0.048 U	0.048 U	-	0.048 U
Bromomethane (Methyl bromide)	ppb	NC	NC	0.032 U	0.032 U	-	0.032 U
Butane	ppb	NC	NC	1.0	0.91	-	1.0
Carbon disulfide	ppb	NC	NC	0.056 J	0.52	-	0.050 J
Carbon tetrachloride	ppb	NC	NC	0.068 J	0.073 J	-	0.087 J
Chlorobenzene	ppb	NC	NC	0.049 U	0.049 U	-	0.049 U
Chlorodifluoromethane	ppb	NC	NC	0.47	0.36	-	0.46
Chloroethane	ppb	NC	NC	0.040 J	0.035 U	-	0.036 J

TABLE 3

SUMMARY OF CRAWL SPACE ANALYTICAL RESULTS
BUILDING 11 - 1915 DRYDEN ROAD
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Parameter	Units	ODH Indoor Air Action Levels		Building 11 Outdoor Air	Building 11 Outdoor Air	Building 11 Outdoor Air	Building 11 Crawl Space
		Screening Levels (Non-residential)	(Non-residential)	1915 Dryden Road 8/7/2012	1915 Dryden Road 8/7/2012	1915 Dryden Road 8/7/2012	1915 Dryden Road 8/7/2012
		<i>a</i>	<i>b</i>				
Chloroform (Trichloromethane)	ppb	80	800	0.038 U	0.038 U	-	0.063 J
Chloromethane (Methyl chloride)	ppb	NC	NC	0.65	0.69	-	0.26 J
cis-1,2-Dichloroethene	ppb	37	370	0.060 U	0.060 U	-	0.060 U
cis-1,3-Dichloropropene	ppb	NC	NC	0.074 U	0.074 U	-	0.074 U
Cyclohexane	ppb	NC	NC	0.27 J	0.24 J	-	0.18 J
Cymene (p-Isopropyltoluene)	ppb	NC	NC	0.057 U	0.079 J	-	0.057 U
Dibromochloromethane	ppb	NC	NC	0.042 U	0.042 U	-	0.042 U
Dichlorodifluoromethane (CFC-12)	ppb	NC	NC	0.43	0.46	-	0.51
Ethylbenzene	ppb	250	2500	0.78	0.12 J	-	0.077 J
Hexachlorobutadiene	ppb	NC	NC	0.078 U	0.078 UJ	-	0.078 U
Hexane	ppb	NC	NC	0.52	0.34 J	-	0.19 J
Isopropyl alcohol	ppb	NC	NC	2.3	1.1 J	-	0.22 J
Isopropyl benzene	ppb	NC	NC	0.12 J	0.060 U	-	0.060 U
m&p-Xylenes	ppb	200	2000	1.1	0.37	-	0.29
Methyl methacrylate	ppb	NC	NC	0.079 U	0.079 U	-	0.079 U
Methyl tert butyl ether (MTBE)	ppb	NC	NC	0.17 U	0.17 U	-	0.17 U
Methylene chloride	ppb	NC	NC	2.4	0.30 J	-	0.26 J
Naphthalene	ppb	2.9	NC	0.20 J	0.090 UJ	-	0.090 U
N-Butylbenzene	ppb	NC	NC	0.17 J	0.046 U	-	0.046 U
N-Decane	ppb	NC	NC	0.097 J	0.31 J	-	0.056 U
N-Dodecane	ppb	NC	NC	0.078 U	0.078 U	-	0.18 J
N-Heptane	ppb	NC	NC	0.18 J	0.20 J	-	0.058 J
Nonane	ppb	NC	NC	0.084 J	0.17 J	-	0.043 U
N-Propylbenzene	ppb	NC	NC	0.37 J	0.056 U	-	0.056 U
N-Undecane	ppb	NC	NC	0.062 U	0.12 J	-	0.13 J
Octane	ppb	NC	NC	0.091 J	0.085 J	-	0.036 U
o-Xylene	ppb	200	2000	0.15 J	0.15 J	-	0.11 J
Pentane	ppb	NC	NC	0.79 J	0.76 J	-	0.90 J
Styrene	ppb	NC	NC	0.15 J	0.092 J	-	0.058 U
tert-Butyl alcohol	ppb	NC	NC	0.085 J	0.038 U	-	0.038 U
tert-Butylbenzene	ppb	NC	NC	0.066 U	0.066 U	-	0.066 U
Tetrachloroethene	ppb	25	250	0.041 J	0.048 J	-	0.19 J
Tetrahydrofuran	ppb	NC	NC	0.098 J	0.078 J	-	0.077 J
Toluene	ppb	NC	NC	1.1	0.86	-	0.68
trans-1,2-Dichloroethene	ppb	NC	NC	0.050 U	0.050 U	-	0.050 U
trans-1,3-Dichloropropene	ppb	NC	NC	0.048 U	0.048 U	-	0.048 U
Trichloroethene	ppb	2	20	0.036 U	0.051 J	-	0.94
Trichlorofluoromethane (CFC-11)	ppb	NC	NC	0.37	0.26	-	0.26
Trifluorotrichloroethane (Freon 113)	ppb	NC	NC	0.070 J	0.072 J	-	0.081 J
Vinyl bromide (Bromoethene)	ppb	NC	NC	0.035 U	0.035 U	-	0.035 U
Vinyl chloride	ppb	2	20	0.071 U	0.071 U	-	0.071 U
Xylenes (total)	ppb	NC	NC	-	-	-	-

TABLE 3

SUMMARY OF CRAWL SPACE ANALYTICAL RESULTS
BUILDING 11 - 1915 DRYDEN ROAD
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

<i>Sample Location:</i>		<i>Building 11 Outdoor Air</i>		<i>Building 11 Outdoor Air</i>		<i>Building 11 Outdoor Air</i>		<i>Building 11 Crawl Space</i>	
		<i>1915 Dryden Road</i>		<i>1915 Dryden Road</i>		<i>1915 Dryden Road</i>		<i>1915 Dryden Road</i>	
		<i>8/7/2012</i>		<i>8/7/2012</i>		<i>8/7/2012</i>		<i>8/7/2012</i>	
<i>Parameter</i>	<i>Units</i>	<i>ODH Indoor Air Screening Levels</i> <i>(Non-residential)</i>	<i>ODH Indoor Air Action Levels</i> <i>(Non-residential)</i>	<i>Building 11 Outdoor Air</i> <i>1915 Dryden Road</i>	<i>Building 11 Outdoor Air</i> <i>1915 Dryden Road</i>	<i>Building 11 Outdoor Air</i> <i>1915 Dryden Road</i>	<i>Building 11 Crawl Space</i> <i>1915 Dryden Road</i>	<i>Building 11 Crawl Space</i> <i>1915 Dryden Road</i>	<i>Duplicate</i>
		<i>a</i>	<i>b</i>						
<i>Tentatively Identified Compounds (TIC) Volatiles</i>									
2-Methylbutane A	ppb	NC	NC	3.0 NJ	-	-	-	-	
Acetaldehyde A	ppb	11	NC	3.5 NJ	-	-	-	-	
Propane A	ppb	NC	NC	U	U	-	-	U	
<i>Gases</i>									
Methane	%	0.05	0.05	0.19 U^{ab}	0.19 U^{ab}	-	-	0.20 U^{ab}	
<i>Field Parameter</i>									
Methane, field (unfiltered)	%	0.05	0.05	-	-	-	-	-	
Methane, field (filtered)	%	0.05	0.05	0	-	-	0	0 / 0	

Notes:

J - The chemical was detected by the laboratory, the listed value is an approximate concentration

JN or NJ - The listed value of the tentatively identified compound is an approximate concentration

U - The chemical was not detected in the sample at the detection limit shown.

UJ - The chemical was not detected in the sample at the approximate detection limit shown.

NC - No criterion

-- Not applicable.

[redacted] Concentration was greater than applicable criteria.